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Task Order No.: UIC-21 UIC/TRL Study No.: 200

Title Page

Draft Report (Volume 1 of 2)

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

Sponsor: U.S. Army Medical Materiel Development Activity

Test Article: WR238605 Succinate Contract No.: DAMD17-92-C-2001

Study Director

Debra L. Kirchner, Ph.D., D.A.B.T.

In-Life Phase Completed On

September 18, 1996

Performing Laboratory

TOXICOLOGY RESEARCH LABORATORY (TRL)
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affect the dams' ability to deliver and rear her offspring. Offspring at 18 mg base/kg/day had evidence of growth retardation and slight developmental and functional delays. Adverse findings included significantly reduced body weights in both sexes throughout the pre- and postweaning periods; slight, significantly delayed attainment of eye opening in both sexes; and slight, but significantly decreased rearing activity in females. All other developmental parameters and neuromotor assessments, survival, and attainment of sexual maturity were unaffected at the high dose. No treatment-related effects occurred in any parameter in the F₁ generation at 2 or 6 mg base/kg/day. In conclusion, the no-observable-effect level (NOEL) of WR238605 Succinate on pregnancy, parturition, and lactation in the F_0 generation dams was 18 mg base/kg/day in spite of toxicity observed at this dose level. Based on alterations in body weights, and slight developmental and functional delays at the high dose, the NOEL for the development of the F_1 generation was 6 mg base/kg/day.

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STATEMENT OF COMPLIANCE

Debra L. Kirchner, Ph.D., D.A.B.T.

Study No. 200 entitled "Oral Prenatal and Postnatal Development Study of WR238605 Succinate in Rats" was conducted in compliance with the Good Laboratory Practices regulations as published in 21 CFR 58, 40 CFR 160 and 40 CFR 792 in all material aspects.

The protocol for this study was approved by the UIC Animal Care Committee.

Study Director	•		
Study Director			
	Study Director		

OUALITY ASSURANCE STATEMENT

STUDY TITLE: ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY

OF WR238605 SUCCINATE IN RATS

STUDY NUMBER: 200

STUDY DIRECTOR: DEBRA L. KIRCHNER

INITIATION DATE: 11/15/95

This study has been divided into a series of phases. random sampling approach, Quality Assurance personnel monitors each of these phases over a series of studies. Procedures, equipment, documentation, etc., are examined in order to assure that the study is performed in accordance with the Good Laboratory Practice regulations of the Food and Drug Administration and Environmental Protection Agency to assure that the study is conducted according to the protocol.

The following are the inspection dates, phases inspected, and report dates of QA inspections of the study.

INSPECT ON 11/15/95, TO STUDY DIR 11/15/95, TO MGMT 11/15/95 PHASES: PROTOCOL REVIEW

INSPECT ON 4/29/96/96, TO STUDY DIR 4/30/96, TO MGMT 5/1/96 PHASES: ROOM ENVIRONMENT, MORTALITY/MORIBUNDITY, FOOD CONSUMPTION, BODY WEIGHT AND DOSING

INSPECT ON 4/30/96, TO STUDY DIR 4/30/96, TO MGMT 5/1/96 PHASES: CLINICAL SIGNS

INSPECT ON 10/4-7/96, TO STUDY DIR 10/7/96, TO MGMT 10/7/96 PHASES: RAW DATA AND DRAFT REPORT FROM THE ANALYTICAL LAB

INSPECT ON 1/17-27/97, TO STUDY DIR 1/27/97, TO MGMT 1/31/97 PHASES: RAW DATA

INSPECT ON 2/4-7/97, TO STUDY DIR 2/7/97, TO MGMT 2/13/97

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PHASES: DRAFT REPORT

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Signature Page

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

Sponsor: U.S. Army Medical Materiel

Development Activity

Fort Detrick

Frederick, MD 21702-5009

Test Article: WR238605 Succinate

Sponsor

Representative: George J. Schieferstein, Ph.D.

Testing Facility: Toxicology Research Laboratory (TRL)

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Study Director

Date

Barry S. Levine, D.Sc., Ph.D., D.A.B.T.

Date

Principal Investigator

Study Initiation: November 15, 1995

In-Life Inititation: April 23, 1996

Dosing Initiation: April 29, 1996

In-Life Completion: September 18, 1996

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SUMMARY

This study evaluated the toxic potential of WR238605 Succinate on the pregnant/lactating female CD[®] rat (F₀ generation) and the survival and development of their offspring (F₁ generation) consequent to exposure from implantation through weaning. Doses were 2, 6, and 18 mg base/kg/day based on a developmental toxicity study in female CD[®] rats (UIC/TRL Study No. 154) in which decreased body weight gains and food consumption occurred throughout the study at 30 mg base/kg/day while marginal reductions in body weight and food consumption were noted during the dosing period at 10 mg base/kg/day.

In the present study, doses of 2, 6, and 18 mg base/kg/day were administered by daily gavage to female CD® rats (the F₀ generation) for at least 36 days: from gestation day (GD) 0 through postnatal day (PND) 20. The results are summarized in Table 1. There were no mortalities or treatment-related clinical signs or necropsy observations noted in the F₀ generation maternal animals at any dose level. At 18 mg base/kg/day, maternal toxicity was observed as significantly reduced body weights, noted essentially throughout the dosing period (i.e., GD9 - PND21), and significantly reduced food consumption, noted over the gestation period (i.e., GD6 - 20). Significantly reduced food consumption occurred at 6 mg base/kg/day following the initiation of dosing over GD6 - 9; however, body weights were unaffected. Administration of WR238605 Succinate did not affect food consumption or body weights at the low dose. Gestation duration, parturition, and litter size were unaffected by treatment at any dose level. Thus, administration of WR238605 Succinate did not adversely affect the dams' ability to deliver and rear her offspring.

Offspring at 18 mg base/kg/day had evidence of growth retardation and slight developmental and functional delays. Adverse findings included significantly reduced body weights in both sexes throughout the pre- and postweaning periods; slight, significantly delayed attainment of eye opening in both sexes; and slight, but significantly decreased rearing activity in females. All other developmental parameters and neuromotor assessments, survival, and attainment of sexual maturity were unaffected at the high dose. No treatment-related effects occurred in any parameter in the F_1 generation at 2 or 6 mg base/kg/day. In conclusion, the no-observable-effect level (NOEL) of WR238605 Succinate on pregnancy, parturition, and lactation in the F_0 generation dams was 18 mg base/kg/day in spite of toxicity observed at this dose level. Based on alterations in body weights, and slight developmental and functional delays at the high dose, the NOEL for the development of the F_1 generation was 6 mg base/kg/day.

2. INTRODUCTION

This study was conducted to evaluate the toxic potential of the test article on the pregnant/lactating female rat (F₀ generation) and the survival and development of their offspring (F₁ generation) consequent to exposure from implantation through weaning. WR238605 Succinate is being developed at an antimalarial agent. The test article was administered by daily gavage to female CD[®] rats (the F₀ generation) for at least 36 days, i.e., from GD6 through PND20. All methods and procedures were conducted in accordance with the Toxicology Research Laboratory Quality Assurance Programs designed to conform with FDA Good Laboratory Practices Regulations. No unforeseen circumstances affected the integrity of the study. This study was initiated on November 15, 1995; dosing began on April 14 and 15, 1996 (first shipment) and May 13 and 14, 1996 (second shipment). The in-life portion was terminated on September 18, 1996 (last F₁ generation necropsy).

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3. MATERIALS AND METHODS

3.1 Test Article

WR238605 Succinate (Bottle No. BM12562) a yellow powder, was provided by the Sponsor and was received November 9, 1995 from Herner and Co., Rockville, MD. The test article was previously assigned an in-house chemical number (0720614). The chemical name of the test article is 8-[(4-Amino-1-methylbutyl)amino]-2,6-dimethoxy-4 methyl-5-(3-trifluoromethyl phenoxy)quinoline succinate, and the mole fraction of the base is 0.8. It was stored at 0 to 4° C at ambient relative humidity in an amber bottle. The chemical structure follows.

The Analytical Chemistry Report is contained in Appendix 1. The test article was initially identified by GS-MS and the purity, as determined by HPLC, was $99.98 \pm 0.00\%$. The terminal purity was $99.81 \pm 0.03\%$. Thus, the test article was stable under storage conditions.

3.2 Animals

One-hundred and twenty eight time-mated nulliparous female CD® Virus Antibody Free rats (GD0 = day of vaginal plug detection) were obtained from Charles River Breeding Laboratories (Portage, MI) in two shipments (April 26, 1996 and on May 10, 1996) with two successive GD0 dates per shipment (i.e., a total of four GD0 subsets). The animals were approximately 10 weeks old (dates of birth February 16, 1996 and March 1, 1996, respectively) upon arrival at the UIC AAALAC-accredited animal facility. Each F₀ generation female was given a facility-unique animal number by the supplier (ear tag) and a separate study-unique number as a subcutaneously implanted microchip upon arrival at UIC. This latter number appeared on a cage card visible on the front of each cage. The cage card additionally contained the study number, test article identification, treatment group number, sex, and dose level. Cage cards were color-coded as a function of treatment group. Animals from the first shipment were maintained in one room at the UIC AAALAC-accredited animal facility, while animals from the second shipment

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(received two weeks later) were housed in a separate, adjacent room. All rats were singly housed (except during portions of the postnatal period when dams and their litters were cohoused) in polycarbonate cages with Anderson bed-o-cob® bedding (Heinold, Kankakee, IL) in a temperature (65 - 78°F) and humidity (30 - 70%) controlled room with a 14 hour light/10 hour dark cycle. The cage size, 840 cm² area and 20 cm height, was adequate to house rats at the upper weight range as described in the *Guide for the Care and Use of Laboratory Animals*, DHHS (NIH) No. 86.23. All animals were routinely transferred to clean cages with fresh bedding weekly.

Certified Rodent Chow No. 5002 (PMI Feeds Inc., St. Louis, MO) was provided ad libitum as a powder from arrival to parturition in order to measure F₀ generation food consumption. The pelleted form of the chow was provided ad libitum from parturition to termination. Tap water from an automatic watering system in which the room distribution lines were flushed daily was provided ad libitum from arrival until termination. The water was not treated with additional chlorine or HCl. There were no known contaminants in the feed or water which were expected to influence the study. A copy of the feed certification was kept with the study records. The results of the most current chemical analyses of Chicago water conducted by the City of Chicago are documented in files maintained by Quality Assurance.

3.3 Experimental Design

F₀ GENERATION

The F₀ generation animals were quarantined for at least 3 days, from receipt until dosing was initiated on GD6. During the quarantine period, the animals were observed daily for signs of illness, and all unusual observations were documented and reported to the Study Director or Clinical Veterinarian. Animals were examined during quarantine and were approved for use by the Clinical Veterinarian prior to being placed on test. All animals were released from quarantine for use on the study. Prior to the initiation of dosing, animals from each of the four GD0 subsets were separately randomized using a computergenerated randomization program, stratified on the basis of body weight, to result in a total of 6 or 7 animals/group/day for a total of 25 animals/group. The thirty eight animals not assigned to the study were euthanized via CO₂ asphyxiation and discarded.

Group	No. of F ₀ Females	Treatment	Dose Level (mg base/kg/day)	Dose Conc. (mg base/ml)	Dose Volume (ml/kg/day)
1	25	Vehicle	0	0	5
2	25	WR238605	2	0.4	5
3	25	WR238605	6	1.2	5
4	25	WR238605	18	3.6	5

Dose levels were selected on the basis of a developmental toxicity study in female rats (UIC/TRL Study No. 154). The number of F_0 animals, 25/sex/dose level, was necessary

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to result in 16 - 20 litters/group for rodents as recommended in the ICH Harmonized Tripartite Guidelines (1993).

The gavage procedure was accomplished by the use of a rigid oral feeding needle. The test article dosing suspensions were administered daily to the F_0 generation females from GD6 through PND20 for a total of at least 36 days.

Test article dosing suspensions were prepared weekly by adding the appropriate amount of WR238605 Succinate (adjusted for the mole fraction and for purity) with the required volume of control article (1.0% Methylcellulose/0.2% Tween 80) in a precalibrated beaker. The contents were mixed with an Omni-Mixer homogenizer for at least 5 minutes. The control suspensions were also prepared weekly. Both the test article and the control suspensions were administered to the animals at a dosing volume of 5 ml/kg/day. The dosing suspensions (including controls) were stored at 2 - 8° C. All suspensions were allowed to warm to room temperature and stirred continuously before and during gavage administration. Samples of all dosing suspensions were analyzed prior to use and only suspensions within 10% of their target concentration were used. Samples of test article and control suspensions were also analyzed weekly after use. Stability data obtained from previous study (UIC/TRL Study No. 047) indicated that the formulations of WR238605 Succinate were stable for 28 days. The test article suspensions were considered to be homogeneous based on homogeneity data also obtained from UIC/TRL Study No. 047.

Body weights were recorded for all animals on GD0 (by the supplier) and on GD5 (randomization), GD6, 9, 12, 15, 18 and 20; and on PND0, 4, 7, 10, 14, 17 and 21. Food consumption was measured for all study animals during the intervals for GD6 - 9, 9 - 12, 12 - 15, 15 - 18, and 18 - 20. Animals were observed daily for signs of clinical toxicity approximately 1 -2 hours after dosing. Animals were also observed twice daily (at least six hours apart) for moribundity/mortality.

Beginning on GD18, the F₀ dams were observed at least twice daily for signs of parturition. The day of parturition was designated PND0. The lactation period was from PND0 to 21 during which time the dam and litter remained housed together. One female (Dam No. 159 at 6 mg base/kg/day) failed to deliver and was euthanized by CO₂ asphyxiation and grossly examined externally and internally on presumed GD25.

At the end of the postnatal period (i.e., on PND21), the dams were euthanized by CO₂ asphyxiation and grossly examined externally and internally. The thoracic, abdominal, and pelvic cavities were opened, and the viscera examined. Organs/tissues with gross lesions were preserved in 10% neutral buffered formalin for possible histopathologic examination. Corresponding organs/tissues from two control animals were also retained for comparison. Upon issuance of the final report, the Sponsor will provide written directions regarding the disposition of tissues not examined histopathologically.

F, GENERATION

On PND0 (PND1 for pups from litter No. 138) each pup in the litter was identified using toe clipping. On PND4, litters were culled in order to equalize the burden on the dam

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for milk production and to diminish confounding effects on pup growth and development. When possible, the litters were culled via a computer randomization procedure using random numbers to yield a maximum of 4 pups/sex/litter (i.e., a maximum of 8 pups/litter). All other pups were euthanized via an intraperitoneal (IP) injection of 40% sodium pentobarbital (≈ 0.04 ml/fetus), examined externally, and discarded.

The pups were sexed on PND0, 4, 7, 14 and 21. The numbers of stillborn (PND0 only), dead, or cannibalized pups were recorded. Stillborn pups were not sexed. If a pup was not found on PND4, 7, 14, or 21, it was recorded as missing. Missing pups were presumed to have been completely cannibalized by the dam. Clinical signs were recorded as observed PND0, 4, 7, 14, and 21 and weekly thereafter. The pups were observed twice daily for mortality from PND0 until termination.

Individual body weights were recorded on PND0, 4 (precull), 7, 14, and 21 during the preweaning period. During the postweaning period, body weights were recorded weekly from PND28 until study termination. Because of the stagger-start design of the study, the F_1 generation animals were delivered, evaluated, and sacrificed in two subsets resulting in a staggered study termination. Body weights were recorded from PND70 - 91 for all of the F_1 generation animals selected for the postweaning fertility phase. Subsequently, these animals were necropsied between PND91 and 119. Thus, PND91 was considered to be the termination body weight day.

 F_1 generation preweating developmental parameters were observed daily in all pups until present (i.e., attained) in accordance with the following schedule.

<u>Parameter</u>	Observation Began on Postnatal Day:				
Surface Righting Reflex	1				
Incisor Appearance	7				
Eyes Open	10				
Cliff Avoidance	15				

F₁ pups were weaned on PND21 (i.e, the F₀ females were removed from the cage, euthanized and necropsied), and a maximum of two animals/sex/litter, when possible, were selected to remain on study. These two animals/sex were, when possible, the same first two pups/sex that were randomly retained on PND4. All F₁ animals retained during the postweaning period were assessed in a functional observational battery (FOB) for weanling rats and were evaluated for the attainment of postweaning developmental parameters and for motor activity in an open-field. One animal/sex/litter was randomly selected for assessment of learning and memory via a passive avoidance method, and the other animal/sex/litter was used to assess fertility indices. There was only one female in litter No. 109 (0 mg base/kg/day). This female was assigned to all postweaning evaluations. Animals not selected for postweaning assessments were euthanized via CO₂ asphyxiation, examined externally, and discarded. After the start of the F₁ fertility phase, all F₁ animals not selected for fertility assessment were similarly euthanized, examined, and discarded.

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The F₁ animals retained at the time of weaning were individually housed and given a study-unique number as a subcutaneously implanted microchip. A record was maintained correlating the toe-mark ID with the study-unique ID for each animal. The study-unique number also appeared on a cage card visible on the front of each cage. The cage card additionally contained the study number, test article identification, treatment group number, sex, and dose level. Cage cards were color-coded as a function of treatment group.

An FOB for weanling rats was conducted in the morning (before 1300) on postnatal days 28 ± 2 . The FOB consisted of a series of observations of the animals in their homecage, when handled, and in an open field and an evaluation of selected reflexes and physical measures. These data were used to provide an assessment of the overall development, behavior, and general functional integrity of the animals' central and autonomic nervous systems (Moser, et al., 1988; Weisenburger, 1995).

Postweaning developmental parameters were observed until present (i.e., attained) in accordance with the following schedule:

	Observation Began
Parameter:	on Postnatal Day:
Vaginal Opening (females)	28
Preputial Separation (males)	35

General locomotor activity and patterns of exploratory behavior were evaluated in selected F_1 animals (Walsh and Cummins, 1976; Fitzgerald, et al., 1988; Weisenburger, 1995). The animals were assessed one at a time on postnatal days 42 ± 2 using the Flex-Field Activity System* (San Diego Instruments, San Diego, CA). The selected animals were placed in a clear acrylic 16" x 16" enclosure for 20 minutes. Photobeam disruptions were used to quantitate (i.e., score) central and peripheral horizontal activity and rearing (i.e., vertical) activity within the enclosure. These data were then organized to allow analyses of the animals' active time in the horizontal plane, total time spent in the center of the enclosure, and total time spent in the rearing position.

Acquisition of a behavior (i.e., learning) and retention of the new behavior (i.e., memory) were evaluated in selected F₁ animals (Riekkinen, et al., 1990; Weisenburger, et al., 1995). The animals were placed one at time in the Gemini Avoidance System® (San Diego Instruments, San Diego, CA) selected for the passive avoidance/trials to criterion test. This test assessed the animal's ability to avoid the preferred darkened chamber using negative reinforcement and was conducted in two phases:

Phase:	Postnatal Day:			
Acquisition (learning)	56 ± 2			
Retention (memory)	63 ± 2			

For each phase, the animals were assessed one at a time in an enclosure with two chambers, one illuminated and one dark, separated by a metal wall with a sliding door. During the acquisition phase of the test, the animal was allowed to cross from the illuminated chamber (Trial 1). The door would automatically close, and a pulse of

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negative reinforcement was delivered to the floor grid. The animal was returned to the illuminated side and allowed to choose to remain there or "cross over" into the dark chamber (Trial 2) If the animal crossed over, a negative reinforcement was again delivered to the floor grid. The number of seconds that the animals remained in the illuminated chamber before crossing over to the darkened chamber, termed "latency", was recorded. If the latency was less than 180 seconds, the animal was retested. Acquisition was achieved when the animal remained in the illuminated chamber for 180 seconds. The number of trials to acquisition was also recorded. The retention phase, conducted one week later, consisted of one trial without negative reinforcement. Again, the latency times (i.e., the number of seconds the animal remained in the illuminated chamber) were recorded.

The rats selected for the assessment of fertility were sexually mature (i.e., at least 10 weeks of age) at the initiation of mating. During the 14 day cohabitation period, females were paired with males from the same treatment group. Sibling pairings were avoided. Vaginal washings were performed each morning during the cohabitation period in order to determine if mating had occurred. When a vaginal plug or the presence of sperm in the vaginal washing was observed (defined as GD0), the mating pair was separated by returning the female to her individual cage. Females that did not show evidence of mating at the end of the cohabitation period were separated from their mate and returned to their cage.

Each female was observed at least twice daily for signs of parturition beginning on gestation day 18, and the day of parturition was recorded. On the day parturition was observed, the numbers of viable and stillborn F₂ pups were recorded. Observations of external abnormalities were recorded. Viable F2 pups were euthanized via an intraperitoneal injection of 40% sodium pentobarbital (≈ 0.04 ml/fetus) and discarded. Stillborn F, pups were also discarded. Females that did not display evidence of mating were euthanized and necropsied 25 days after the last day of cohabitation. Uteri with no macroscopic implantation were opened and placed for approximately 10 minutes in aqueous ammonium sulfide solution (10%). Any resorptions noted were graded (early or late), counted, and recorded.

Following a review by the Study Director and Sponsor's Representative, the F₁ animals used during the fertility phase were euthanized via CO, asphyxiation, examined externally, and discarded. These animals were grossly examined externally at the time of sacrifice, and any abnormalities were recorded. Skin tissues from two males at 2 mg base/kg/day (Animal Nos. 1267 and 1493) and the eye from one female at 18 mg base/kg/day (Animal No. 18911) were preserved in 10% neutral buffered formalin for possible histopathologic examination. Skin tissue from a male control (Animal No. 10103) was also retained for comparison. Upon issuance of the final report, the Sponsor will provide written directions regarding the disposition of tissues not examined histopathologically.

3.4 Statistical Analyses

One-way analyses of variance (ANOVA) was used to analyze F₀ and F₁ generation body weights, body weight gains, and gestation duration; F₀ generation food consumption; F₁ generation motor activity; and the number of viable pups in the F_1 and F_2 generations.

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If a significant F ratio was obtained (p \leq 0.05), Dunnett's test was used for pair-wise comparisons to the control group. The Kruskal-Wallis test was used to analyze F_1 generation attainment of developmental parameters, passive avoidance retention, and the number stillborn pups in the F_1 and F_2 generations. If a significant F ratio was obtained (p \leq 0.05), the Mann/Whitney U test was used for pair-wise comparisons to the control group. Parameters recorded during conduct of the F_1 generation FOB were analyzed by one-way ANOVA (count and interval data and air righting reflex), the Kruskal-Wallis test (rank data), or the Chi-Square test (quantal and descriptive data and palpebral closure). Pair-wise comparisons to the control group were not conducted since there were no significant F ratios (p \leq 0.05). F_1 generation sex ratios (PND0) and mating* and fertility** indices were analyzed by the Chi-Square test. Pair-wise comparisons to the control group were not conducted since there were no significant F ratios (p \leq 0.05).

*Mating Index = (No. with evidence of mating/No. cohoused) X 100
**Fertility Index = (No. pregnant/No. with evidence of mating) X 100

The litter was the experimental unit for the statistical analysis of F_1 generation preweaning parameters for body weight, body weight gains, attainment of developmental landmarks, and number of viable and stillborn pups (Haseman and Hogan, 1975; Nishimura and Kast, 1989). Thus, the group means were derived in two steps. First, the data for the individual pup was used to determine the mean for each litter. Second, the litter means were used to determine the mean for each group. For all other analyses of F_0 and F_1 generation data, the individual animal was the experimental unit.

RESULTS

4.1 Dosage Formulation Analyses

The results of the dosage formulations analyses are shown in Table 2. The Analytical Chemistry Report is in Appendix A.

All analyzed dosing solutions which were used were within 10% of their target concentration.

4.2 F₀ Generation

4.2.1 Mortality/Clinical Signs

The summary of the F_0 generation clinical signs are presented in Table 3. Individual clinical signs are in Appendix B.

There were no mortalities and no clinical signs noted at any dose level following oral administration of WR238605 Succinate during gestation or lactation. During the postnatal period, no unusual nursing or nesting behaviors were observed indicating that the dams in all WR238605 Succinate-treated groups were fully able to rear their offspring until weaning.

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4.2.2 Body Weights

The summaries of the F_0 generation body weights and weight gains are in Tables 4 and 5, respectively. Individual body weight data are included in Appendix C.

At 18 mg base/kg/day, body weights were significantly reduced following initiation of treatment through the end of the dosing period (i.e., GD9 - PND21). These alterations were attributed to an initial, significant reduction in body weight gains noted during GD6 - 15. Although high dose animals gained weight at the same rate as the control animals for the rest of the dosing period (i.e., GD15 - PND21), body weights remained significantly reduced. At the end of the preweaning period during PND17 - 21, body weight gain was significantly increased in high dose females compared to weight loss noted in females in the 0, 2, and 6 mg base/kg/day groups. Total body weight gain for the gestation and postnatal period was significantly decreased at 18 mg base/kg/day compared to the controls. There were no effects of treatment on body weights at 2 or 6 mg base/kg/day. Slight but significant body weight reductions at 6 mg base/kg/day on PND4 and 10 and at 2 mg base/kg/day on PND17 observed in the absence of any other alterations were considered not biologically meaningful.

4.2.3 Food Consumption

The summary of the F_0 generation food consumption is presented in Table 6. Individual food consumption data are shown in Appendix D.

At 18 mg base/kg/day, food consumption was significantly reduced over all intervals during the gestation period. At 6 mg base/kg/day, a significant reduction in food consumption occurred over GD6 - 9; food consumption for the remainder of the gestation period was comparable to the controls. There were no effects of treatment on food consumption at 2 mg base/kg/day.

4.2.4 Reproductive Parameters

The summary of the F_0 generation reproductive parameters are presented in Table 7. Individual data are included in Appendices E and 1.

Administration of WR238605 Succinate had no affects on gestation duration or parturition. The number of viable litters and the number of males and females per litter on PND0 were also comparable among the groups.

4.2.5 Gross Necropsy Observations

The summary of the F_0 generation gross necropsy observations are presented in Appendix F.

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One dam (No. 159) at 6 mg base/kg/day was palpated not pregnant and sacrificed on her GD25. No gross necropsy observations were recorded for this animal. All of the other dams survived until scheduled necropsy on PND21. There were no treatment-related gross necropsy observations at any dose level.

4.3 F, Generation

4.3.1 Mortality/Clinical Observations

The summary of the F_1 generation postweaning clinical signs for males and females are presented in Tables 8.1 and 8.2, respectively. Individual clinical signs for the litters evaluated during the preweaning period and the animals evaluated during the postweaning period are in Appendix G.

There were no treatment-related mortalities or clinical signs observed in the F₁ generation during the postnatal period. During the preweaning period on PND 7, 14, or 21, a few pups in all groups including the controls were missing (i.e., not found in the cage). These pups were considered to have died and been cannibalized, a typical occurrence in rodent litters. During the postweaning period, observations of dehydration or dark material around the eyes noted in 1 or 2 animals in all groups including the controls were considered sporadic and unrelated to treatment.

4.3.2 Body Weights

The summaries of the F₁ generation body weights and weight gains for the preweaning period are in Tables 9.1 and 10.1, respectively, for males and Tables 9.2 and 10.2, respectively for females. The summaries of the F₁ generation body weights and weight gains for the postweaning period are in Tables 11.1 and 12.1, respectively, for males and Tables 11.2 and 12.2, respectively for females. Individual body weight data for the preweaning and postweaning periods are included in Appendix H.

At 18 mg base/kg/day, body weights on PND0 (i.e, birth weights) were significantly reduced in both sexes. During the preweaning period, the rate of body weight gain was also reduced in both sexes at the high dose resulting in significantly reduced body weights on all evaluated days. Although statistically insignificant, total body weight gain for the preweaning period was reduced in both sexes. There were no adverse effects on body weight gains at 2 and 6 mg base/kg/day during the preweaning period.

During the postweaning period, body weight gains were comparable among all groups. However, the body weights were significantly decreased in high dose males from PND 28 - 70 and in high dose females from PND 28 - 56. Body weights after these timepoints to the end of the study were slightly but

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insignificantly reduced compared to the controls. There were no treatment-related effects on body weights at 2 or 6 mg base/kg/day. Isolated but significantly increased body weights observed on one occasion in males and in females at 2 mg base/kg/day were not considered biologically relevant.

4.3.3 Preweaning Survival

The summary of the F_1 generation preweaning survival is presented in Table 13. Individual survival data for the F_1 pups are in Appendix I.

Preweaning survival was not affected in any WR238605 Succinate group. There were no group differences in the number of litters and number of viable pups of both sexes per litter pre- or post cull.

4.3.4 Developmental Parameters

The summary of the F_1 generation developmental parameters is presented in Table 14. Individual data are in Appendix J.

All evaluated F₁ generation offspring attained all of the developmental parameters. However, the mean day of appearance for "eyes open" was significantly delayed in both sexes at 18 mg base/kg/day. Generally, eyes were opened by PND14; however, this parameter was attained on PND15 for many pups at the high dose. There were no affects on the mean day of appearance of any other developmental parameter.

4.3.5 Functional Observation Battery (FOB)

The summary of the F_1 generation FOB is presented in Table 15. Individual animal data are presented in Appendix K.

Significantly reduced body weights were noted in both sexes at 18 mg base/kg/day. All other parameters were comparable among groups indicating the general development, behavior, and functional integrity of the F₁ animals' nervous systems were not affected by treatment.

4.3.6 Motor Activity

The summary of the F₁ generation motor activity assessment is presented in Table 16. Individual animal data are in Appendix L.

Females at 18 mg base/kg/day spent significantly less time rearing (i.e., both front paws off the floor of the enclosure) during the twenty minutes spent in the enclosure. There were no differences in the amount time spent in the horizontal plane or in the center of the enclosure in any treated groups.

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4.3.7 Learning and Memory

The summary of the F_1 generation passive avoidance learning (i.e., acquisition) and memory (i.e., retention) are presented in Table 17. Individual animal data are presented in Appendix M.

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Essentially all animals completed the acquisition phase of the passive avoidance test within two or three trials. The first trial was not completed by one male each at 2 and 6 mg base/kg/day. Since these two animals never crossed from the illuminated to the dark chamber of enclosure, they were not considered to have had an opportunity to "learn". During the retention phase, the latency times (i.e., the average time the animals remained in the darkened chamber) were not significantly different between the groups.

4.3.8 Reproductive Parameters and Gross Necropsy Observations

The summary of the F_1 generation reproductive parameters is presented in Table 18. Individual data are in Appendix N.

There were no adverse effects at any dose level on gestation duration, mating and fertility indices, or the number of viable or stillborn F_2 generation pups.

DISCUSSION

The present study evaluated the toxic potential of WR238605 Succinate on the pregnant/lactating female (F_0 generation) and the survival and development of their offspring (F_1 generation) consequent to exposure from implantation through weaning. Doses of 2, 6, and 18 mg base/kg/day were administered by daily gavage to female CD[®] rats (the F_0 generation) for at least 36 days: from GD6 through PND20. The results are summarized in Table 1.

There were no mortalities or treatment-related clinical signs or necropsy observations noted in the F₀ generation maternal animals at any dose level. At 18 mg base/kg/day, maternal toxicity was observed as significantly reduced body weights, noted essentially throughout the dosing period (i.e., GD9 - PND21), and significantly reduced food consumption, noted over the gestation period (i.e., GD6 - 20). Significantly reduced food consumption occurred at 6 mg base/kg/day following the initiation of dosing over GD6 - 9; however, body weights were unaffected. Administration of WR238605 Succinate did not affect body weights or food consumption at the low dose.

In the present study, the dams were allowed to deliver and rear their offspring. Treatment with WR238605 Succinate did not affect reproductive functions at any dose level. Gestation duration, parturition, and nesting behaviors were similar among all groups. At the end of the preweaning period, weight gain was significantly increased in high dose females compared to weight loss

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l, low, and mid dose. The biological relevance of this alteration is

noted in females in the control, low, and mid dose. The biological relevance of this alteration is unclear. It is possible that the high dose dams were still producing milk or perhaps the pups had not depleted the milk reserves. Milk production or specific maternal-litter interactions were not evaluated in this study.

There was no effect of treatment on viability at birth or survival during the preweaning period indicating that adaptation to extrauterine life was not compromised at any dose level. Pups of both sexes at 18 mg base/kg/day were born with significantly reduced weights compared to controls. Additionally, the rate of growth was significantly reduced throughout the preweaning period in high dose male and female pups. A significant delay in attainment of eye opening was also noted during preweaning in both sexes at 18 mg base/kg/day. F, generation body weights at 18 mg base/kg/day remained significantly reduced (until PND70 in males and PND49 in females) even though their rate of growth was comparable to the controls. Based on the findings from the FOB, there were no effects of treatment on general patterns of gait and overall reactivity However, during assessment of motor activity, high dose females spent significantly less time in a rearing posture. These animals did not display gait anomalies or problems with coordination and balance during conduct of the FOB or at any other time during the study. It is possible that muscle strength was diminished in high dose females. Rearing is also considered by some investigators as a nonspecific indicator excitability or curiosity related to hippocampal brain wave activity (Walsh and Cummins, 1976). However, there were no other behavioral alterations, i.e., no indications of stress or fear as assessed in the FOB or other components of the motor activity test. Thus, while the results of the motor activity assessment suggests the presence of a functional deficit, the biological relevance of the finding is unclear. There were no affects on attainment of preputial separation or vaginal opening, hormonally mediated developmental landmarks indicative of sexual maturity, and no adverse findings observed during the F₁ generation fertility assessment. No treatment-related effects occurred in any parameter in the F₁ generation at 2 or 6 mg base/kg/day.

In conclusion, the no-observable-effect level (NOEL) of WR238605 Succinate on pregnancy, parturition, and lactation in the F_0 generation dams was 18 mg base/kg/day in spite of toxicity observed at this dose level. Based on alterations in body weights, and slight developmental and functional delays at the high dose, the NOEL for the development of the F_1 generation was 6 mg base/kg/day.

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7. PERSONNEL

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8. ARCHIVES

The raw data, specimens, test article reserves, and final report are archived at the Toxicology Research Laboratory (TRL), University of Illinois at Chicago (UIC), Department of Pharmacology, 1940 W. Taylor St., Chicago, IL 60612-7353.

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Table 1

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

Summary of Toxic Responses

Dose Level (mg base/kg/day)	0	2	6	18
F ₀ Generation:				
No. Pregnant/On Study	25/25	25/25	24/25	25/25
Clinical Signs	-	NE	NE	NE
Body Weight		NE	NE	1
Food Consumption	-	NE	NE	1
Reproductive Indices		NE	NE	NE
F ₁ Generation:				
Clinical Signs: Males/Females	-	NE/NE	NE/NE	NE/NE
Preweaning Survival: Males/Females	-	NE/NE	NENE	NE/NE
Body Weight: Males/Females	•	NE/NE	NE/NE	1/1
Developmental Landmarks: Males/Females		NE/NE	NE/NE	↑ EO/↑ E
Functional Observational: Battery Males/Females	-	NE/NE	NE/NE	NE/NE
Motor Activity: Males/Females		NE/NE	NE/NE	NE/Į R
Learning/Memory: Males/Females	-	NE/NE	NE/NE	NE/NE
Reproductive Assessment	-	NE	NE	NE

CONCLUSION:

This study evaluated the toxic potential of WR238605 Succinate in the pregnant and lactating CD* female rat (F0 Generation) and the survival and development of their offspring (F₁ generation) consequent to exposure from implantation through weaning. Doses were 2, 6, and 18 mg base/kg/day administered to the F₀ generation dams from GD6 - PND20 (GD0 = day of vaginal plug). There were no mortalities and no treatment-related clinical signs or gross necropsy observations at any dose level. At 18 mg base/kg/day, maternal toxicity was as significantly reduced body weights for essentially the entire dosing period (i.e., GD9 -PND21) and significantly reduced food consumption noted over the gestation period (i.e., GD6 - 20). Significantly reduced food consumption occurred at 6 mg base/kg/day following the initiation of dosing over GD6 - 9; however, body weights were unaffected. Gestation duration, parturition, and litter size were unaffected by treatment at any dose level. Thus, administration of WR238605 Succinate did not adversely affect the dams' ability to deliver or rear her offspring. The F₁ offspring at 18 mg base/kg/day had evidence of growth retardation and slight developmental and functional delays. Adverse findings included significantly reduced body weights in both sexes throughout the preweaning and postweaning periods; slight, significantly delayed attainment of eye opening in both sexes; and slight, but significantly decreased rearing activity in females. All other developmental parameters and neuromotor assessments, survival, and attainment of sexual maturity were unaffected at the high dose. No treatment-related effects occurred in any parameter in the F1 generation at 2 or 6 mg base/kg/day. In conclusion, the no-observable-effect level (NOEL) of WR238605 Succinate on pregnancy, parturition, and lactation in the F₀ generation dams was 18 mg base/kg/day in spite of toxicity observed at this dose level. Based on alterations in body weights, and slight developmental and functional delays at the high dose, the NOEL for the development of the F₁ generation was 6 mg base/kg/day.

NE = No Effect

EO = Increased attainment of eye opening

R = Rearing component

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Table 2

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

Dosage Formulations Analyses

	Target		Predose Analysis			Postdose Analysis	
Study Week	(mg base ml)	Date	(mg base/ml)	% Target	Date	(mg base/ml)	% Predose
	0.0		0			0	-
1	0,4	1	0.398 ± 0.003	99.5		0.402 ± 0.003	101.0
	1.2	04 25.96	1.135 ± 0.048	94.6	05/02/96	1.178 ± 0.004	103.8
	3.6	1	3.618 ± 0.047	100.5		3.659 ± 0.045	101.1
	0.0		0	-	05/09/96	0	-
	0.4	1	0.398 ± 0.002	99.5		0.397 ± 0.002	99.7
2	12	05 02 96	1.188 ± 0.010	99.0	05/09/96	1.195 ± 0.004	100.6
	3.6		3.703 ± 0.010	102.9		3.730 ± 0.026	100.7
	0.0		0			0	
	0.4		0.396 ± 0.003	99.0		0.391 ± 0.003	98.7
3	1.2	05/09/96	1.213 ± 0.010	101.1	05/16/96	1.186 ± 0.005	97.8
	3.6	1	3.684 ± 0.047	102.3		3.702 ± 0.020	100.5
	0.0		0			0	
	0.4	1	0.403 ± 0.004	100.8		0.425 ± 0.027	105.5
4	1.2	05/16/96	1.219 ± 0.010	101.6	05/23/96	1.212 ± 0.006	99.4
	3.6		3.603 ± 0.154	100.1		3.745 ± 0.056	103.9
	0.0		0	-		0	
	0.4	1	0.420 ± 0.021	105.0		0.394 ± 0.004	93.8
5	1.2	05/23/96	1.209 ± 0.022	100.8	05/30/96	1.211 ± 0.018	100.2
	3.6		3.662 ± 0.021	101.7		3.621 ± 0.075	98.9
	0.0		0			0	
	0.4		0.396 ± 0.004	99.0		0.408 ± 0.006	103.0
6	1.2	05/30/96	1.223 ± 0.011	101.9	06/06/96	1.190 ± 0.010	97.3
	3.6		3.719 ± 0.041	103.3		3.675 ± 0.055	98.8
	0.0		0			0	
	0.4		0.400 ± 0.003	100.0		0.401 ± 0.002	100.3
7	1.2	06/06/96	1.200 ± 0.030	100.0	06/13/96	1.210 ± 0.017	100.8
	3.6	1	3.629 ± 0.188	100.8		3.634 ± 0.188	100.1
	0.0		0	-		0	
-	0,4		0.407 ± 0.003	101.8		0.394 ± 0.005	96.8
8	1.2	06/13/96	1.149 ± 0.039	95.8	06/20/96	1.144 ± 0.029	99.6
	3.6		3.646 ± 0.131	101.3		3.714 ± 0.031	101.9

			SUMMARY	OF	CLINI	CAL SIGN	S		
STUDY:	200	(F ₀ Generation)			SEX:	FEMALE			
			DOSE: GROUP:		0 1-F	2 2-F	6 3-F	18 4-F	(mg base/kg/day)
		Scheduled Sac Normal Sacrificed ^a	rifice		25 25 0	25 25 0	24 25 1	25 25 0	
		Total Number of	Animals		25	25	25	25	

^aDam No. 159 at 6 mg base/kg/day was not pregnant and was sacrificed on GD25.

Table 4

 	S	UMMARY	OF BODY	WEIGHTS	G (Grams)		
STUDY:	200 (F ₀ Gener	ration)	:	SEX:	FEMALE		
	DOSE:	0	2	6	18	(mg base/kg/day	()
PERIOD	GROUP:	1-F	2-F	3-F	4-F		•
 						• • • • • • • • • • • • • • • • • • • •	
GD 0	MEAN	201	201	203	202		
	S.D.	5.0	4.7	4.7	5.1		
	Nа	25	25	24	25		
GD 5	MEAN	233	233	234	234		
	S.D.	7.6	7.1	7.1	6.8		
	N	25	25	24	25		
GD 6	MEAN	239	236	236	238		
	S.D.	8.7	8.5	7.8	6.7		
	N	25	25	24	25		
	.,		23	24			
GD 9	MEAN	254	254	249	245*		
	S.D.	10.7	10.0	9.8	11.2		
	N	25	25	24	25		
GD 12	MEAN	269	269	267	254*		
	S.D.	18.9	11.6	10.3	13.0		
	N	25	25	24	25		
GD 15	MEAN	293	289	288	266*		
	S.D.	13.4	14.7	10.5	12.9		
	N	25	25	24	25		
GD 18	MEAN	322	319	316	292*		
	S.D.	15.9	17.7	15.3	17.9		
	N	25	25	24	25		
GD 20	MEAN	351	347	343	315*		
	S.D.	18.3	18.5	15.9	18.6		
	N	25	25	24	25		
PND 0	MEAN	274	273	267	244*		
	S.D.	13.2	19.0	14.2	12.2		
	N	25	25	24	25		
PND 4	MEAN	292	285	279*	256*		
	S.D.	14.2	21.7	13.2	12.8		
	N	25	25	24	25		

Analysis of Variance using DUNNETT'S Procedure

P less than .05

^aThe number of dams evaluated. One dam at 6 mg base/kg/day was not pregnant.

		S	UMMARY O	F BODY	WEIGHTS	(Grams)	
	STUDY:	200 (F ₀ Gene	ration)	÷	SEX:	FEMALE	
i	PERIOD	DOSE: GROUP:	0 1-F	2 2- F	6 3-F	18 4-F	(mg base/kg/day)
			• • • • • • • • • • • • • • • • • • • •				
ĺ	PND 7	MEAN S.D. Na	303 16.8 25	295 18.5 25	293 13.9 24	264* 11.2 25	
! !	PND 10	MEAN S.D. N	315 20.1 25	309 21.8 25	302* 14.4 24	273* 12.4 25	
	PND 14	MEAN S.D. N	329 25.3 25	318 24.8 25	320 18.8 24	283* 16.0 25	
	PND 17	MEAN S.D. N	330 19.6 25	317* 21.4 25	317 18.3 24	289* 18.1 25	
	PND 21	MEAN S.D. N	317 21.0 25	304 21.8 25	310 22.9 24	294* 18.5 25	

Analysis of Variance using DUNNETT'S Procedure

P less than .05

^aThe number of dams evaluated. One dam at 6 mg base/kg/day was not pregnant.

	S	UMMARY C	F WEIGHT	GAINS	(Grams) ^a		
STUDY:	200 (F ₀ Gener	ation)	=	SEX:	FEMALE		
PERIOD ^b	DOSE: GROUP:	0 1-F	2 2-F	6 3-F	18 4-F	(mg base/kg/day)	
		_			-		
GD 9	MEAN S.D. N C	15 8.8 25	18 7.8 25	12 7.8 24	7* 7.6 25		
GD 12	MEAN S.D.	15 11.0	15 6.6	18 4.8	9* 7.1		
	N N	25	25	24	25		
GD 15	MEAN S.D. N	24 13.1 25	21 5.5 25	21 3.5 24	12* 7.8 25		
GD 18	MEAN S.O.	28 10.4	29	28 7.7	26 9.3		
	N.	25	6.4	24	25		
GO 20	MEAN S.D. N	29 13.7 25	28 5.3 25	28 5.9 24	23 8.2 25		
PND 0	MEAN S.D.	-77 12.3	-74 9.9	-76 12.1	-71 10.7		
	N	1 25	25	24	25		
PND 4	MEAN S.D. N	18 10.0 25	12 13.8 25	12 10.5 24	12 9.7 25		
PND 7	MEAN S.D.	10 9.9	11 11.0	14 8.4	9.2		
	N	25	25	24	25		
PND 10	MEAN S.D. N	12 10.7 25	14 15.6 25	7.6 24	9 8.2 25		
PND 14	MEAN S.D.	14 10.7	9	18 10.9	10 9.5		
	N N	25	25	24	25		

^{*} Pless than .05

Analysis of Variance using DUNNETT'S Procedure

^aWeight gains compared to the previous period.

^bBaseline is GD6.

^cThe number of dams evaluated. One dam at 6 mg base/kg/day was not pregnant.

		2	UMMARY	OF WEIGHT	GAINS	(Grams) ^a	
	STUDY:	200 (F ₀ Gene	eration)		SEX:	FEMALE	
	PERIOD	DOSE: GROUP:	0 1-F	2 2-F	6 3-F	18 4-F	(mg base/kg/day)
	PND 17	MEAN S.D. N	2 18.1 25	-1 10.8 25	-3 9.3 24	5 14.0 25	
	PND 21	MEAN S.D. N	-13 17.6 25	-12 14.1 25	-7 11.8 24	5* 11.8 25	
	TOTAL GAIN	MEAN S.D. N	78 17.6 25	69 19.1 25	74 21.8 24	56* 18.9 25	
* Pless	than .05	Ana	alysis of Var	iance using DUN	NETT'S Pro	ocedure	

^aWeight gains compared to the previous period.

^bThe number of dams evaluated. One dam at 6 mg base/kg/day was not pregnant.

Table 6

SUMMARY	OF DAILY	MEAN F	OOD CON	SUMPTION (G	rams) ^a	
: 200 (F ₀ Gen	eration)	-	SEX:	FEMALE		
DOSE: GROUP:	0 1-F	2 2-F		18 (mg b 4-F	ase/kg/day)	
INTAKE (g) S.D. NC	20.4 2.45 25	20.3 2.16 25	18.7* 1.98 24			
INTAKE (9) S.D. N	22.2 4.19 25	22.2 2.41 25	21.5 1.96 24	17.2* 4.12 25		
INTAKE (g) S.D. N	23.8 2.12 25	22.9 2.70 25	22.3 1.95 24	16.5* 2.32 25		
INTAKE (g) S.D. N	24.6 3.09 25	24.6 3.14 25	22.8 2.03 24	18.6* 2.52 25		

22.7

2.80

24

17.8*

2.05

P less than .05

STUDY

PERIOD

GD 9b

GD 12

GD 15

GD 18

GD 20

S.D.

INTAKE (g)

Analysis of Variance using DUNNETT'S Procedure

24.1

3.07

25

23.9

3.31

25

^aCalculated daily food consumption for successive period intervals.

^bBaseline is GD6.

^cThe number of dams evaluated. One dam at 6 mg base/kg/day was not pregnant.

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Table 7

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

F₀ Generation: Summary of Reproductive Parameters

Dose Level (mg base/kg/day)	0	2	6	18
Total Number Females/Group	25	25	25	25
Total Number of Surviving Females	25	25	25	25
Total Number of Pregnant Females	25	25	24	25
Gestation Duration ^{a.b}	21.8 ± 0.4	21.8 ± 0.4	21.6 ± 0.5	21.6 ± 0.5
Number F, Litters on PND0	25	25	24	25
Number Viable Pups/Litter on PND0 ^{a,b} Males Females	6.3 ± 2.4 5.4 ± 2.2	6.3 ± 2.4 5.4 ± 2.1	6.6 ± 1.3 5.7 ± 1.7	6.1 ± 1.6 6.2 ± 2.3
Number Stillborn Pups/Litter on PND0 ^{a,c}	0.1 ± 0.03	0.1 ± 0.03	0.0 ± 0.20	0.1 ± 0.30

aMean \pm S.D.

^bStatistically analyzed using the ANOVA/Dunnett's test ($p \le 0.05$)

cStatistically analyzed using the Kruskal-Wallis/Mann-Whitney U test ($p \le 0.05$)

Table 8.1

							ů.
	SUMMARY OF	CLINICAL	SIGNS	(Postwe	aning Peri		,
STUDY: 200L (f.	Generation)	SEX:	MALE				
	DOSE: GROUP:	0 1-M	2 2-M	6 3-M	18 (mg 4-M	base/kg/day)	
Da	heduled Sacrifice rk Material Around Eyes hydrated	50 0 0	50 1 1	48 0 0	50 1 1		
Tota	l Number of Animals a	50	50	48	50		

 $^{^{}a}$ Two animals/sex/litter were evaluated during the postweaning period. There were 24 litters at 6 mg base/kg/day since one F_{0} dam at this dose level was not pregnant.

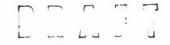
Table 8.2

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	SUMMARY C	F CLINIC	CAL SIGNS	(Post	weaning Period)	
STUDY: 200L (F ₁ Generation	۱)	SEX:	FEMALE			
	DOSE: GROUP:	0 1-F	2 2-F	6 3-F	18 (mg base/kg/day) 4-F	
Scheduled Dark Mater Dehydrated	ial Around Eyes	49 0 1	50 0 1	48 0 2	50 1 0	
Total Number	of Animals ^a	49	50	48	50	

 $^{^{}a}$ Two animals/sex/litter were evaluated during the postweaning period. There was only one F_{1} female in one litter at 0 mg base/kg/day. There were 24 litters at 6 mg base/kg/day since one F_{0} dam at this dose level was not pregnant.

Table 9.1



		CIBOLADA	073	DODY	TOTAL COMMO			- 1 1
		SUMMARY	OF.	BODI	WEIGHIS	(Grams)	(Preweaning	Period)
STUDY:	200P (F1	Generation)		-	SEX:	MALE		
252102	DOSE:	0		2	6		(mg base/kg/da	y)
PERIOD	GROUP:	1-м		2-M	3-м	4-M		
PND 0	MEAN	6.7		6.7	6.4	6.2	•	
	S.D.	0.50		0.49	0.53	0.46		
	Na	25		24	24	25		
PND 4	MEAN	11.0		10.9	10.2	9.4	•	
	S.D.	1.13		1.01	1.08	1.04		
	N	25		25	24	25		
PND 7	MEAN	17.3		17.2	16.3	14.4	•	
	S.D.	1.58		1.72	1.78	1.70		
	N	25		25	24	25		
PND 14	MEAN	35.6		35.0	34.0	28.6	•	
140 14	S.D.	2.50		3.54	2.82	2.80		
	N	25		25	24	25		
PND 21	MEAN	55.5		54.6	53.6	46.6		
	S.D.	4.34		5.83	4.80	4.64		
	N	25		25	24	25		
* Pless than .05	A	nalysis of Va	riance	using	DUNNETT'S Pro	cedure		

^aThe number of litters evaluated during the preweaning period. The PND0 body weights were inadvertently not recorded for one litter at 2 mg base/kg/day. There were 24 litters at 6 mg base/kg/day since one F₀ dam at this dose level was not pregnant.

Table 9.2



			SUMMARY	OF BOD	Y WEIGHT:	S (Grams)	(Preweaning	Period)
	STUDY:	200P (F1	Generation)		= SEX:	FEMALE		
		DOSE :	0	2	6	18	(mg base/kg/da	у)
	PERIOD	GROUP:	1-F	2-1	3-F	4-F		
	Dun 0	45.4				r 04		
	PND 0	MEAN		6.4		5.9*		
		S.D.	0.43	0.49		0.43		
		Na	25	24	24	25		
	PND 4	MEAN	10.2	10.4	9.7	8.9*		
		S.D.	1.07	1.06	0.90	1.04		
		N	25	25		25		
	PND 7	MEAN	16.3	16.2	15.4	13.7*		
		S.D.	1.43	1.74		1.71		
		N	25	25		25		
	PND 14	MEAN	34.0	33.3	32.5	27.3*		
	110 14	S.D.	2.27	3.41		3.01		
		N	25	25		25		
	PND 21	MEAN	52.8	51.7	51.0	44.4*		
	PNU ZI	S.D.	3.71					
		5.D.	25	5.45		5.12		
		N	25	23	24	25		
* Pless	than .D5	,	analysis of Va	riance usir	g DUNNETT'S Pr	ocedure		

^aThe number of litters evaluated during the preweaning period. The PND0 body weights were inadvertently not recorded for one litter at 2 mg base/kg/day. There were 24 litters at 6 mg base/kg/day since one F₀ dam at this dose level was not pregnant.

Table 10.1



			SUMMARY	OF	WEIGHT	GAINS	(Grams) ^a	(Preweaning Period)
S'.	rudy: 2	00P (F1	Generation)		-	SEX:	MALE	
PERI	00	DOSE:	0 1- M		2 2-M	6 3-M	18 4-M	(mg base/kg/day)
PND	4 b	MEAN S.D. N C	4.3 0.70		4.2 0.77	3.8 0.70	3.2° 0.69	
		NC	25		24	24	25	
PND	7	MEAN S.D.	6.4 0.72		6.3 0.89	6.0 0.81	5.0° 0.81	
		N	25		25	24	25	
PND	14	MEAN S.D. N	18.2 1.39 25		17.7 2.16 25	17.7 1.37 24	14.2° 1.57 25	
			25		23		2,	
PND	21	MEAN S.D.	20.0		19.6	19.6	18.0° 2.20	
		N	25		25	24	25	
ATOT	L GAIN	MEAN S.D.	48.9 3.97		47.9 5.71	47.2 4.44	40.5	
		N	25		24	24	25	
* Pless than	.05	A	nalysis of Va	riance	using DUNN	ETT'S Pro	cedure	

^aWeight gains compared to the previous period.

^bBaseline is PND0.

 $^{^{\}rm c}$ The number of litters evaluated during the preweaning period. The PND0 body weights were inadvertently not recorded for one litter at 2 mg base/kg/day. There were 24 litters at 6 mg base/kg/day since one F_0 dam at this dose level was not pregnant.

Table 10.2

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		SUMMARY	OF	WEIGHT	GAINS	(Grams)a	(Preweaning Period)
STUDY:	200P (F ₁	Generation)		=	SEX:	FEMALE	
PERIOD	DOSE: GROUP:	0 1-F		2 2-F	6 3-F	18 (ms	g base/kg/day)
 b							
PND 4	MEAN	4.0		4.0	3.6	3.0*	
	S.D.	0.75		0.74	0.61	0.72	
	NC	25		24	24	25	
PND 7	MEAN	6.1		5.9	5.7	4.8*	
	S.D.	0.60		0.88	0.77	0.81	
	N	25		25	24	25	
PND 14	MEAN	17.7		17.1	17.1	13.6*	
	S.D.	1.33		2.00	1.34	1.73	
	N	25		25	24	25	
PND 21	MEAN	18.8		18.4	18.6	17.1	
	S.D.	1.93		2.69	1.96	2.59	
	N	25		25	24	25	
TOTAL GAIN	MEAN	46.5		45.3	45.0	38.6	
	S.D.	3.48		5.24	3.92	4.84	
	N	25		24	24	25	

P less than .05

Analysis of Variance using DUNNETT'S Procedure

^aWeight gains compared to the previous period.

^bBaseline is PND0.

^cThe number of litters evaluated during the preweaning period. The PND0 body weights were inadvertently not recorded for one litter at 2 mg base/kg/day. There were 24 litters at 6 mg base/kg/day since one F₀ dam at this dose level was not pregnant.



			SUMMARY	OF BODY	WEIGHT	S (Grams)	(Postweaming	Period)
	STUDY:	200L (F1	Generation)	-	SEX:	MALE		
		DOSE:	0	2	. 6	18 (mg base/kg/day)
	PERIOD	GROUP:	1-M	2-M	3-M	4-M	,,,,,,,, .	
						••••••		
	PND 28	MEAN	99	97	96			
		S.D.	7.3	8.1	8.3	7.4		
		N	50	50	48	50		
	PND 35	MEAN	157	155	153	144*		
		S.D.	10.2	13.3	12.9	10.8		
		N	50	50	48	50		
	PND 42	MEAN	218	219	214	203*		
	•	S.D.	13.2	15.6	16.7	13.8		
		N	50	50	48	5D		
	PND 49	MEAN	282	285	282	266*		
		S.D.	15.7	19.2	21.1	18.0		
		N	50	50	48	50		
	PND 56	MEAN	338	343	338	321*		
	1110 30	S.D.	21.4	24.1	25.1	25.5		
		N	50	50	48	50		
	PND 63	MEAN	386	389	386	371*		
		S.D.	23.8	33.9	30.8	25.3		
		N	50	50	48	50		
	PND 7D	MEAN	426	430	427	410*		
		S.D.	27.8	34.4	35.2	28.9		
		N	50	50	48	50		
	PND 77	MEAN	457	454	453	433		
		S.D.	32.7	32.6	35.2	36.6		
		Np	25	25	24	25		
	PND 84	MEAN	490	488	485	466		
		S.D.	35.2	35.1	36.9			
		N	25	25	24	25		
	PND 91	MEAN	514	512	510			
		S.D.	39.0	37.8	40.2			
		N	25	25	24	25		
* Ples	s than .05		Analysis of Va	ariance using	DUNNETT'S D	rocedure		
r (63	S CHOIL OF		minutyala Ul Ve	WI LMINE MAILIN	ACHIEF 1 2 LI	orcadi c		

Note: There were 24 litters at 6 mg base/kg/day since one F₀ dam at this dose level was not pregnant.

^aTwo animals/sex/litter were evaluated during the postweaning period on PND28 - 70. ^bOne animal/sex/litter was evaluated during the postweaning period on PND77 - 91 (i.e., during the fertility phase).

			SUMMARY	OF	BODY	WEIGHTS	(Grams)	(Postweaning Period)	-
	STUDY:	200L (F ₁	Generation)		=	SEX:	FEMALE		-
P	ERIOD	DOSE: GROUP:	0 1-F		2 2-F	6 3-F	18 (1 4-F	mg base/kg/day)	
									-
P	ND 28	MEAN S.D.	90		90	88	80*		
		Na.	6.6		7.1 50	7.3 48	8.7 50		
P	ND 35	MEAN	132		134	130	121*		
		S.D.	9.2		8.8	10.3	12.0		
		N	49		50	48	50		
P	ND 42	MEAN	166		168	166	154*		
		S.D.	11.8		10.6	12.6	14.6		
		N	49		50	48	5D		
P	ND 49	MEAN	191		195	192	180*		
		S.D.	14.9		11.9	15.7	16.9		
		N	49		50	48	50		
P	ND 56	MEAN	212		222*	211	205		
		S.D.	16.8		14.8	23.2	20.4		
		N	49		50	48	50		
P	ND 63	MEAN	231		242*	234	226		
		S.D.	19.2		16.4	22.5	23.4		
		N	49		5D	48	50		
P	ND 70	MEAN	249		257	253	241		
		S.D.	21.7		20.9	26.1	27.0		
		N	49		50	48	50		
P	ND 77	MEAN	288		297	283	276		
		S.D.	23.5		17.6	25.5	25.3		
		иb	25		25	24	25		
P	ND 84	MEAN	324		334	317	314		
		S.D.	25.7		23.4	27.3	23.6		
		N	25		25	24	25		
P	ND 91	MEAN	388		403	386	379		
		S.D.	41.1		35.6	32.2	37.8		
		N	25		25	24	25		

Analysis of Variance using DUNNETT'S Procedure

P less than .D5

Note: There were 24 litters at 6 mg base/kg/day since one F₀ dam at this dose level was not pregnant.

^aTwo animals/sex/litter were evaluated during the postweaning period on PND28 - 70. There was only one F₁ female in one litter at 0 mg base/kg/day.

^bOne animal/sex/litter was evaluated during the postweaning period on PND77 - 91 (i.e., during the fertility phase).

Table 12.1

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		SUMMARY	OF	WEIGHT	GAINS	(Grams) ^a	(Postweaning Period)
STUDY:	200L: (F1	Generation)			SEX:	MALE	
PERIOD	DOSE: GROUP:	0 1-M		2 2-M	6 3-M	18 4-M	(mg base/kg/day)
PND 35 b	MEAN S.D. N C	58 4.3 50		57 8.2 50	58 5.9 48	56 4.3 50	
PND 42	MEAN S.D. N	61 5.9 50		64* 7.3 50	61 5.2 48	60 4.8 50	
PND 49	MEAN S.D. N	64 6.0 50		66 6.9 50	67 6.6 48	62 7.2 50	
PND 56	MEAN S.D. N	56 10.0 50		58 12.2 50	57 6.4 48	56 13.5 50	
PND 63	MEAN S.D. N	48 6.6 50		46 16.7 50	48 9.5 48	50 9.2 50	
PND 70	MEAN S.D. N	40 8.2 50		41 17.3 50	41 8.8 48	39 8.9 50	
TOTAL GAIN	MEAN S.D. N	327 26.1 50		333 32.6 50	331 29.5 48	322 25.8 50	

P less than .05

Analysis of Variance using DUNNETT'S Procedure

^aWeight gains compared to the previous period. ^bBaseline is PND28.

 $^{^{\}circ}$ Two animals/sex/litter were evaluated during the postweaning period from PND28 - 70. There were 24 litters at 6 mg base/kg/day since one F_0 dam at this dose level was not pregnant.

Table 12.1 (contd.)

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS



		• • • • • • • • • • • • • • • • • • • •	SUMMARY	OF	WEIGHT	GAINS	(Grams) ^a	(Postweaning Period)
	STUDY:	200L (F ₁	Generation)	••••	-	SEX:	MALE	
	PERIOD	DOSE: GROUP:	0 1-M		2 2-M	6 3-M	18 4-m	(mg base/kg/day)
	PND 77 b	MEAN	28		31	26	25	
		S.D. NC	7.6 25		12.9 25	6.7	7.6 25	
	PND 84	MEAN S.D.	33 6.5		34 6.5	32 7.1	32 6.3	
		N	25		25	24	25	
	PND 91	MEAN S.D. N	24 8.9 25		24 9.7 25	25 6.1 24	27 5.1 25	
	TOTAL GAIN	MEAN	414		414	415	405	
		S.D. N	36.3 25		36.3 25	35.5 24	37.3 25	
* Dilege	than OF		maluais of Man			F7710 0	and the second	

P less than .05

Analysis of Variance using DUNNETT'S Procedure

^aWeight gains compared to the previous period.

^bBaseline is PND70.

^cOne animal/sex/litter was evaluated during the fertility phase of the postweaning period from PND70 - 91. There were 24 litters at 6 mg base/kg/day since one F₀ dam at this dose level was not pregnant.

Table 12.2

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			SUMMARY O	F WEIGHT	GAINS	(Grams) ^a	(Postweaning Period)
	STUDY:	200L (F ₁	Generation)	÷	SEX:	FEMALE	
		DOSE:	0	2	6	. 18	(mg base/kg/day)
	PERIOD	GROUP:	1-F	2-F	3-F	4-8	
					4.3		
	PND 35b	MEAN	_41	44*	42	41	
		S.D.	5.3	4.2	5.4		
		NC	49	50	48	50	
	PND 42	MEAN	34	34	36	33	
		S.D.	6.6	5.0	5.7	6.1	
		N	49	50	48	50	
	PND 49	MEAN	25	28	26	26	
		S.D.	7.1	6.6	5.8	5.5	
		N	49	50	48	50	
	PND 56	MEAN	21	26*	19	25	
		S.D.	9.3	7.4	17.3	6.7	
		N	49	50	48	50	
	PND 63	MEAN	19	20	23	21	
		S.D.	7.4	5.3	16.0	6.1	
		N	49	50	48	50	
	PND 70	MEAN	18	15	19	15	
	, ,,,	S.D.	6.4	19.5	6.1	11.0	
		N	49	50	48	50	
	TOTAL GAIN	MEAN	159	167	165	161	
	THE WAIR	S.D.	19.0	19.8	22.4	23.7	
		N.	49	50	48	50	
* O loce	Ab OF		malvais of Vasis				

P less than .05

Analysis of Variance using DUNNETT'S Procedure

^aWeight gains compared to the previous period.

^bBaseline is PND28.

 $^{^{\}rm c}$ Two animals/sex/litter were evaluated during the postweaning period from PND28 - 70. There was only one F_1 female in one litter at 0 mg base/kg/day. There were 24 litters at 6 mg base/kg/day since one F_0 dam at this dose level was not pregnant.

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Table 12.2	-		berned	
PRENATAL AND POSTNATAL DEVELOPMENT UDY OF WR238605 SUCCINATE IN RATS	ber met	Lu	u .	Ů,

			SUMMARY	OF WEIGHT	GAINS	(Grams) ^a	(Postweaning	Period)
	STUDY:	200L (F ₁	Generation)	-	SEX:	FEMALE		
	PERIOD	DOSE: GROUP:	0 1-F	2 2-F	6 3-F	18 4-F	(mg base/kg/day)
	PND 77 b	MEAN	33	37	32	32		
		S.D.	6.7 25	16.2 25	9.6 24	10.1 25		
	PND 84	MEAN S.D.	36 7.7	37 8.6	35 6.2	38 10.2		
		N	25	25	24	25		
	PND 91	MEAN S.D. N	64 28.4 25	69 23.8 25	69 17.1 24	65 26.6 25		
	TOTAL GAIN	MEAN	297	313	299	300		
		S.D. N	39.2 25	35.5 25	28.1 24	35.3 25		
* Pless	than .05	A	nalysis of Va	riance using DUNN	ETT'S Pro	ocedure		

^aWeight gains compared to the previous period. ^bBaseline is PND70.

^cOne animal/sex/litter was evaluated during the fertility phase of the postweaning period from PND70 - 91. There were 24 litters at 6 mg base/kg/day since one F₀ dam at this dose level was not pregnant.

Task Order No.: UIC-21 UIC/TRL Study No.: 200

Table 13



ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

F. Generation: Summary of Preweaning Survivala

Dose Level (mg base/kg/day)	0	2	6	18
Postnatal Day 0 ^{b.c} Males	6.3 ± 2.4 (25)	$6.3 \pm 2.4 (25)$	$6.6 \pm 1.3 (24)$	6.1 ± 1.6 (25)
Females	$5.4 \pm 2.2 (25)$	$5.4 \pm 2.1 (25)$	5.7 ± 1.7 (24)	$6.2 \pm 2.3 (25)$
Postnatal Day 4 (Precull) ^{b.c.d} Males	$6.3 \pm 2.3 (25)$	$6.3 \pm 2.4 (25)$	6.4 ± 1.2 (24)	5.9 ± 1.7 (25)
Females	$5.4 \pm 2.1 (25)$	$5.2 \pm 2.0 (25)$	$5.6 \pm 1.7 (24)$	$6.2 \pm 2.3 (25)$
Postnatal Day 7 ^{b,c} Males	3.8 ± 0.5 (25)	3.9 ± 0.4 (25)	$4.0 \pm 0.0 (24)$	$3.9 \pm 0.3 (25)$
Females	3.7 ± 0.7 (25)	$3.6 \pm 0.7 (25)$	$3.8 \pm 0.6 (24)$	3.9 ± 0.5 (25)
Postnatal Day 14 ^{b.c} Males	3.8 ± 0.5 (25)	3.9 ± 0.4 (25)	$4.0 \pm 0.0 (24)$	3.9 ± 0.3 (25)
Females	3.7 ± 0.7 (25)	3.6 ± 0.7 (25)	3.8 ± 0.6 (24)	3.9 ± 0.5 (25)
Postnatal Day 21 ^{b,c} Males	3.8 ± 0.5 (25)	3.9 ± 0.4 (25)	$4.0 \pm 0.0 (24)$	$3.9 \pm 0.3 (25)$
Females	3.7 ± 0.7 (25)	3.6 ± 0.7 (25)	3.8 ± 0.6 (24)	3.9 ± 0.5 (25)

^aStatistically analyzed using the ANOVA/Dunnett's test (p \leq 0.05)

^bMean ± S.D. for the number of viable pups/litter

Number in parenthesis = number of litters/group

dLitters were culled to 4/sex on PND4

[]

Contract No.: DAMD17-92-2001

Task Order No.: UIC-21 UIC/TRL Study No.: 200

Table 14

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

F. Generation: Summary of Developmental Parameters*

Dose Level (mg base/kg/day)	0	2	6	18
Surface Righting Reflex ^{b,c} Males	2.0 ± 0.5 (25)	2.0 ± 0.6 (25)	2.0 ± 0.6 (24)	1.0 ± 0.6 (25)
Females	2.0 ± 0.6 (25)	2.0 ± 0.7 (25)	2.0 ± 0.6 (24)	$2.0 \pm 0.6 (25)$
Incisor Appearances ^{b,c} Males Females	$10.7 \pm 0.9 (25)$ $10.5 \pm 0.7 (25)$	$10.4 \pm 0.7 (25)$ $10.3 \pm 0.7 (25)$	$10.6 \pm 0.7 (24)$ $10.5 \pm 0.6 (24)$	$10.7 \pm 0.9 (25)$ $10.8 \pm 0.8 (25)$
Eyes Open ^{b.c} Males	14.2 ± 0.4 (25)	14.3 ± 0.4 (25)	14.4 ± 0.5 (24)	14.6 ± 0.5* (25)
Females	$14.1 \pm 0.4 (25)$	$14.1 \pm 0.6 (25)$	$14.2 \pm 0.5 (24)$	14.5 ± 0.6 * (25)
Cliff Avoidance ^{b,c} Males Females	$15.0 \pm 0.1 (25)$ $15.0 \pm 0.0 (25)$	$15.1 \pm 0.1 (25)$ $15.0 \pm 0.1 (25)$	$15.1 \pm 0.1 (24)$ $15.0 \pm 0.1 (24)$	$15.1 \pm 0.2 (25)$ $15.0 \pm 0.2 (25)$
Preputial Separation ^{b,d} Males Vaginal Opening ^{b,d}	38.9 ± 2.2 (50)	38.7 ± 1.9 (50)	39.7 ± 1.9 (48)	39.8 ± 2.5 (50)
Females	$32.4 \pm 1.2 (49)$	$31.9 \pm 1.4 (50)$	$32.1 \pm 1.0 (48)$	$32.2 \pm 1.2 (50)$

^{*}Statistically analyzed using the Kruskal-Wallis/Mann-Whitney U test ($p \le 0.05$)

bMean ± S.D. for day of attainment of the landmark (e.g., surface righting reflex was attained essentially on PND2)

^{&#}x27;Number in parenthesis = number litters/group evaluated (These landmarks were observed in the preweaning period)

^dNumber in parenthesis = number animals/group evaluated (These landmarks were observed in the postweaning period)

^{*}Statistically different from the control group

Task Order No.: UIC-21 UIC/TRL Study No.: 200

Table 15

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

F, Generation: Summary of Functional Observational Battery^a

Dose Level (mg base/kg/day)	0	2	6	18
Number of Males/Females ^b	50/49°	50/50	48/48 ^d	50/50
Home Cage Observations (Posture/palpebral closure/convulsions/ vocalization/biting) Males Females	NE	NE	NE	NE
	NE	NE	NE	NE
Ease of Handling (During removal from cage/when held) Males Females	NE	NE	NE	NE
	NE	NE	NE	NE
General Appearance (Lacrimation/salivation/fur appearance) Males Females	NE	NE	NE	NE
	NE	NE	NE	NE
Open Field Activity (Sniffing/freezing/grooming/no. fecal boluses and urine spots/diarrhea) Males Females	NE	NE	NE	NE
	NE	NE	NE	NE
Reflexes (Acoustic/approach/touch/tail pinch/air righting) Males Females	NE	NE	NE	NE
	NE	NE	NE	NE
Physical Measures (Body weight/temperature) Males Females	NE NE	NE NE	NE NE	†BM*

^{*}Statistical analyses were performed using the ANOVA/Dunnett's test (count, interval, and rank data); the Kruskal-Wallis/Mann-Whitney U test (rank data), or the Chi-Square/Fischer's Exact test for rank (descriptive and quantal data) ($p \le 0.05$)

bWhen possible, two animals/sex/litter were evaluated.

^{&#}x27;There was only one female in litter No. 109.

^dThere were 24 litters in the 6 mg base/kg/day group (F_0 dam No. 159 was not pregnant). NE = No effect for all parameters evaluated unless otherwise indicated.

JBW = Decreased body weights

^{*}Statistically different from the control group

Task Order No.: UIC-21 UIC/TRL Study No.: 200

Table 16

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

F₁ Generation: Summary of Motor Activity^a

Dose Level (mg base/kg/day)	0	2	6	18
Active Time in Horizontal Plane ^{b,c}				
Males	666.1 ± 104.02 $(48)^{d}$	671.4 ± 116.88 (50)	637.1 ± 186.18 $(48)^{f}$	654.3 ± 138.12 (50)
Females	659.6 ± 83.63 $(49)^{e}$	669.3 ± 106.60 (50)	645.3 ± 166.91 $(48)^{f}$	664.0 ± 139.83 (50)
Total Time in Center of Enclosure ^{b,c}				
Males	49.4 ± 37.84 $(48)^{d}$	54.6 ± 45.97 (50)	94.6 ± 236.58 $(48)^{f}$	74.4 ± 167.28 (50)
Females	76.6 ± 58.90 $(49)^{e}$	58.7 ± 43.10 (50)	$96.4 \pm 235.75 $ $(48)^{f}$	72.7 ± 166.08 (50)
Total Time Rearing ^{b,c}				
Males	293.9 ± 103.97 $(48)^{d}$	319.8 ± 87.84 (50)	297.9 ± 94.27 $(48)^{f}$	271.8 ± 98.63 (50)
Females	389.4 ± 111.68 (49) ^e	385.2 ± 122.61 (50)	340.3 ± 112.58 $(48)^{f}$	332.2 ± 128.70* (50)

^aStatistically analyzed using the ANOVA/Dunnett's test (p \leq 0.05)

^bMean ± S.D. for the number of seconds out of 1200 seconds (i.e., 20 minutes) the animals were actively moving (i.e., in the horizontal plane), active and/or resting in the center of the enclosure, or in a rearing posture (i.e., with the front paws off the floor).

Number in parenthesis = number of animals/group tested. When possible, two animals/sex/litter were evaluated.

^dThe data for both males from litter No. 104 was recorded for the full 20 minutes. However, due to a technical error, the data could not be analyzed.

There was only one female in litter No. 109.

There were 24 litters in the 6 mg base/kg/day group (F₀ dam No. 159 was not pregnant).

Task Order No.: UIC-21 UIC/TRL Study No.: 200

Table 17

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

F₁ Generation: Summary of Learning and Memory

Dose Level (mg base/kg/day)	0	2	6	18
Acquistion (Learning) ^a Males	25/25	24/25 ^d	23/24 ^{e.f}	25/25
Females	25/25	25/25	24/24°	25/25
Retention (Memory) ^{b.c} Males	159.4 ± 11.7	145.0 ± 11.0	147.5 ± 12.2	132.5 ± 13.5
Females	124.5 ± 13.7	132.5 ± 13.9	96.2 ± 12.9	137.2 ± 11.2

^{*}The numbers of animals that achieved acquisition/number of animals tested.

^bMean ± S.D. for the number of seconds out of 180 seconds that the animals remained in the illuminated chamber of the enclosure (i.e., the number of seconds the animal demonstrated retention of the acquired behavior).

Statistically analyzed using the Kruskal-Wallis/Dunnett's test ($p \le 0.05$)

^dOne male (No. 14901) did not achieve acquisition (i.e., never crossed from the illuminated to the dark chamber of the enclosure). Consequently, this animal never received the negative reinforcement and could not be tested for retention. ^eThere were 24 litters in the 6 mg base/kg/day group (F₀ dam No. 159 was not pregnant).

One male (No. 15101) did not achieve acquisition (i.e., never crossed from the illuminated to the dark chamber of the enclosure). Consequently, this animal never received the negative reinforcement and could not be tested for retention.

Task Order No.: UIC-21 UIC/TRL Study No.: 200

Table 18

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

F, Generation: Summary of Reproductive Data

Dose Level (mg/base/kg/day)	0	2	6	18
Number of Mating Pairs	25	25	24 ^f	25
Number of F, Females Pregnant	22	24	24	22
Gestation Durationab	21.4 ± 0.6	21.8 ± 0.5	21.5 ± 0.6	21.4 ± 0.5
Mating Index ^{c,d}	100% (25/25)	100% (25/25)	100% (24/24)	100% (25/25)
Fertility Index ^{c,d}	88% ^g (22/25)	96% ^g (24/25)	100% (24/24)	88% ^ε (22/25)
Number Viable F ₂ Pups ^{a,b}	15.4 ± 1.8	15.2 ± 2.3	14.7 ± 3.2	14.5 ± 2.2
Number Stillborn F ₂ Pups ^{a,c}	0.3 ± 0.5	0.2 ± 0.6	0.1 ± 0.3	0.4 ± 0.6

^aMean ± S.D.

^bStatistically analyzed by the ANOVA/Dunnett's test ($p \le 0.05$)

^{&#}x27;Statistically analyzed using the Chi-Square/Fisher's Exact test (p \leq 0.05)

^dMating Index = (No. with evidence of mating/No. cohoused) x 100

^dFertility Index = (No. pregnant/No. with evidence of mating) x 100

Statistically analyzed using the Kruskal-Wallis/Mann-Whitney U test ($p \le 0.05$)

There were 24 litters in the 6 mg base/kg/day group (F₀ dam No. 159 was not pregnant).

Three females at 0 mg base/kg/day, one female at 2 mg base/kg/day, and three females at 18 mg base/kg/day had evidence of mating (i.e., sperm in the vaginal washing), but were not pregnant when necropsied on GD25.

APPENDIX A ANALYTICAL CHEMISTRY REPORT

Oral Prenatal and Postnatal Development Study of WR238605 Succinate In Rats UIC/TRL Study Number 200

Part I:

Identity, Purity and Stability of Neat WR238605 Succinate

Part II:

Dosing Formulations Analysis of WR238605 Succinate in 1%

Methylcellulose/0.2% Tween 80

Analysts:

A. Karl Larsen, Jr.

Thomas Tolhurst

Study Site:

Drug Disposition Research Laboratory

College of Pharmacy

University of Illinois at Chicago

Chicago, Illinois 60612

Sponsor:

Toxicology Research Laboratory

University of Illinois at Chicago

Chicago, Illinois 60612

Report

Prepared by:

Thomas Tolhurst

Report

Prepared:

October 7, 1996

Approved:

Eugene F. Woods & Stoods Drug Disposition Research Laboratory

Part 1: Identity, Purity and Stability of Neat WR238605 Succinate

Objective

The objective of this study was to confirm the identity and establish the purity and stability of neat WR238605 Succinate (Bottle No. BM 12562).

Identification

GC-MS System

Gas Chromatograph: Hewlett-Packard Model 5890 Series II

Mass Selective Detector (MSD): Hewlett-Packard Model 5970

Analytical Column: 30 m x 0.25 mm ID, DB-1 with a 3 micron film thickness

GC Parameters: Injector temp. 250 °C, oven temp. 70 °C initial, 270 °C final,

15 °C/minute ramp, carrier gas - helium, flow rate 2

mL/minute, split ratio 10:1

Procedure

Subject sample (WR238605 succinate) was submitted by the Toxicology Research Laboratory, (TRL). The sample was dissolved in hexane:ethanol (4:1) to a concentration of $0.8~\mu g$ base/mL and a $2~\mu L$ aliquot was injected on the column. The MSD scanned from 40 amu to 475 amu at a rate of 1 scan per second.

Results

The mass spectrum indicates a molecular ion m/e 463 (M⁺ free base) and m/e 405 [M⁺ free base minus (CH₂)₃ NH₂]. This pattern is consistent with the structural formula and corresponds to the finding by SRI International (see SRI International Report No. 469, May 9, 1994).

The mass spectrum of the WR238605 sample was previously reported (see Analytical Chemistry Report of UIC/TRL Study No. 097 and UIC/TRL Study No. 098 from August 19, 1993) and it is shown in Figure 1.

Purity/Stability

The subject sample (WR238605 Succinate) was supplied by the TRL and stored at 0 to 4 °C when not being analyzed.



Description

A fine pale yellow powder, no obvious odor.

HPLC System

Solvent Delivery:

Waters Model 6000A Pump

Injector:

Rheodyne 7125 with $20\mu L$ sample loop

Analytical Column:

Bondclone ODS, 10μ , 300 mm x 3.9 mm

(Phenomenex)

Detector:

Kratos, Spectroflow 773 UV Detector, 268 nm

Integrator:

Perkin Elmer LCI-100 Integrator

Mobile Phase:

75% methanol: 25% deionized water containing 6.9 grams of sodium acetate and 9 mL of 85% o-

phosphoric acid; flow rate 1.5 mL/min

Procedure

Five solutions of WR238605 were prepared as follows. Twenty-five mg of WR238605 was weighed into each of five 25 mL volumetric flasks. The samples were dissolved in and the volume brought to mark with mobile phase. A 20 μ L aliquot of each solution was chromatographed at 268 nm for purity determination.

Calculation of Purity

Quantitations were based on the assumption of equal detector response per unit weight of all UV-absorbing components. Areas of WR238605 and other detectable components in the subject sample chromatograms were employed in the following equation to calculate the percentage of WR238605 present in the sample:

%PURITY = (area of WR238605/total area - mobile phase) x 100

Stability

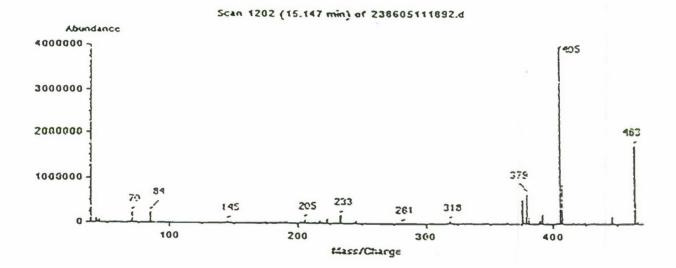
The stability of neat WR238605 Succinate was assessed by comparing the percent purity of WR238605 samples submitted for analysis prior to and following completion of UIC/TRL Study Number 200. A change in purity greater than 10% was considered to represent a significant loss of potency.

Results

Typical chromatograms are shown in Figure 2. The subject samples were found to contain less than 1% of UV-absorbing impurities. The percent purity of the initial and terminal WR238605 samples were $99.98 \pm 0.00\%$ and $99.81 \pm 0.03\%$, respectively, and the assay results are presented in Tables 1 and 2. No loss of potency was found to have occurred over the period during which UIC/TRL Study Number 200 was conducted.

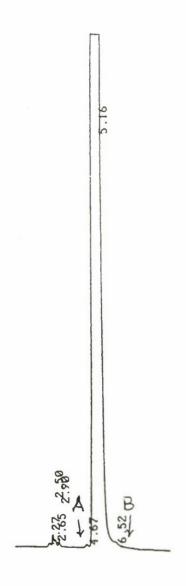
Figure 1

Mass Spectrum of WR238605 Sample





Chromatograms of WR238605 (Conc. 0.8 mg/mL, 268 nm)





Initial Sample

Terminal Sample

Purity Data for WR238605 Succinate Initial Sample

Solutions

Peak Identity	1	2	3 1		5
WR238605	48741020	48925026	50288590	50128658	50260853
A	1496	1474			2754
В	6938	7483	9422	8042	8896
% Purity*	99.98	99.98	99.98	99.98	99.98

^{*}mean \pm s.d. (99.98 \pm 0.00)

Table 2

Purity Data for WR238605 Succinate Terminal Sample

Solutions

Peak Identity	1	2	3	4	5
WR238605	47249676	4735977	47125071	47058251	47534419
A	A 5073 4311		5717	5008	6589
В	77765	69101	79570	83397	103362
% Purity*	99.83	99.85	99.82	99.81	99.77

^{*}mean \pm s.d. (99.81 \pm 0.03)

Part II: Dosing Formulations Analysis of WR238605 Succinate in 1% Methylcellulose/0.2% Tween 80

Introduction

Sample from UIC/TRL Study No. 200 were submitted by the TRL to the Drug Disposition Research Laboratory for the quantitation of WR238605 free base in dosing formulations. All samples submitted were analyzed by HPLC using the existing analytical method (SOP No. 01MA10-01).

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Analytical Method

Regents

HPLC grade methanol, 85% o-phosphoric acid, and sodium acetate were purchased from Fisher Scientific. HPLC grade water was acquired through a Millipore, MILLI-Q Reagent Water System which was supplied with distilled water.

Standards

All WR238605 concentrations reflect free base value. A 0.8 mg base/mL WR238605 stock solution was prepared by weighing 100 mg of the drug (mole fraction = 0.8) into a 100 mL volumetric flask. The content was dissolved in and the volume brought to mark with mobile phase. A working calibration standard solution of $80\mu g$ base/mL was prepared by transferring 10.0 mL of the 0.80 mg base/mL stock solution to a 100 mL volumetric flask and diluting to mark with mobile phase. The remaining working calibration standards were prepared from the 80 μg base/mL WR238605 solution as follows:

Volume	Flask	Final
Transferred (mL)	Volume (mL)	Concentration (µg base/mL)
1.0	10	8
2.0	10	16
4.0	10	32
6.0	10	48
8.0	10	64

Controls

Control A (0.8 mg base/mL) and control B (2.4 mg base/mL) were prepared by weighing 25 mg and 75 mg, respectively, of WR238605 Succinate salt into two 25 mL volumetric flasks. The contents were dissolved in and diluted to mark with mobile phase. Control A was further diluted 1:25 and Control B was diluted 1:62.5 prior to analysis.

Sample Preparation

Triplicate dilutions of each suspension were prepared in mobile phase prior to HPLC analysis. The vehicle and the 0.4 mg base/mL suspension were diluted 1:10, and the 1.2 mg base/mL and the 3.6 mg base/mL suspension were diluted 1:25 and 1:100, respectively.

HPLC System

See part I: HPLC System

Calculations

A standard curve was run at the beginning and end of each assay day. Final concentrations for controls and samples were determined using a composite standard curve. The composite standard curve was determined by linear least squared regression analysis of the peak areas for WR238605 free base as a function of concentration. WR238605 concentrations (mg base/mL) for controls and samples were determined using the following equation:

WR238605 Conc. = $(Y-B)/M \times (d.f./1000)$

Y = peak height

B = Y-intercept from composite standard curve

M = slope from composite standard curve

d.f. = dilution factor

The standard curves were linear over the range of WR238605 assayed (8 μ g base/mL - 80 μ g base/mL) and had correlation coefficients greater than 0.998. A representative standard curve is shown in Figure 3.

Results

Results of dosing formulations analysis for UIC/TRL Study No. 200 are presented in Table 3. All test article dosage formulations were within 10% of their respective target concentrations both prior to and after dosing.

Figure 3

Standard Curve of WR238606

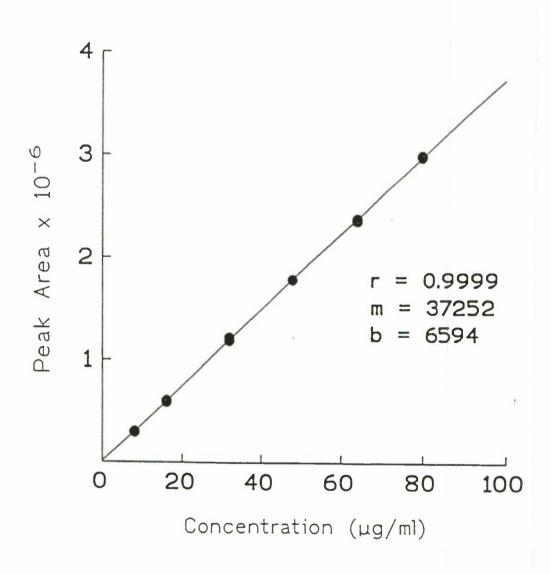


Table 3 Results of Dosing Formulations Analysis for UIC/TRL Study Number 200

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G. 1	Target		Predose Analysis			Postdose Analysis	
Study Week	Concentration (mg base/ml)	Date	(mg base/ml) % Target		Date	(mg base/ml)	% Predose
	0.0		0	-		0	-
1	0.4		0.398 ± 0.003	99.5		0.402 ± 0.003	101.0
	1.2	04/25/96	1.135 ± 0.048	94.6	05/02/96	1.178 ± 0.004	103.8
	3.6		3.618 ± 0.047	100.5		3.659 ± 0.045	101.1
	0.0		0	-		0	-
	0.4		0.398 ± 0.002	99.5		0.397 ± 0.002	99.7
2	1.2	05/02/96	1.188 ± 0.010	99.0	05/09/96	1.195 ± 0.004	100.6
	3.6		3.703 ± 0.010	102.9		3.730 ± 0.026	100.7
	0.0		0	-		0	-
	0.4		0.396 ± 0.003	99.0		0.391 ± 0.003	98.7
3	1.2	05/09/96	1.213 ± 0.010	101.1	05/16/96	1.186 ± 0.005	97.8
	3.6		3.684 ± 0.047	102.3		3.702 ± 0.020	100.5
	0.0		0	-		0	-
	0.4		0.403 ± 0.004	100.8		0.425 ± 0.027	105.5
4	1.2	05/16/96	1.219 ± 0.010	101.6	05/23/96	1.212 ± 0.006	99.4
	3.6		3.603 ± 0.154	100.1		3.745 ± 0.056	103.9
	0.0		0	-		0	-
	0.4		0.420 ± 0.021	105.0	-	0.394 ± 0.004	93.8
5	1.2	05/23/96	1.209 ± 0.022	100.8	05/30/96	1.211 ± 0.018	100.2
	3.6		3.662 ± 0.021	101.7		3.621 ± 0.075	98.9
	0.0		0	-		0	-
	0.4		0.396 ± 0.004	99.0		0.408 ± 0.006	103.0
6	1.2	05/30/96	1.223 ± 0.011	101.9	06/06/96	1.190 ± 0.010	97.3
	3.6		3.719 ± 0.041	103.3		3.675 ± 0.055	98.8
	0.0		0	-		0	•
	0.4		0.400 ± 0.003	100.0		0.401 ± 0.002	100.3
7	1.2	06/06/96	1.200 ± 0.030	100.0	06/13/96	1.210 ± 0.017	100.8
	3.6		3.629 ± 0.188	100.8		3.634 ± 0.188	100.1
	0.0		0	•		0	
	0.4		0.407 ± 0.003	101.8		0.394 ± 0.005	96.8
8	1.2	06/13/96	1.149 ± 0.039	95,8	06/20/96	1.144 ± 0.029	99.6
	3.6		3.646 ± 0.131	101.3		3.714 ± 0.031	101.9

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APPENDIX B

INDIVIDUAL F₀ GENERATION OBSERVATIONS (Clinical Signs)

			INDIVIDUA	L CLINICAL	SIGNS			
	STUDY: GD 6-Pl	200 ND 21	GROUP: 1- DOSE: 0	F (mg base/kg/day)	SEX: F	EMALE		
Al	NIMAL #	OBSERVATIONS		SEV	ERITY	LOC	TIME OCC	URRED
	101	Normal Scheduled Sacr:	ifice				GD 6-PND PND 21	20
	102	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	103	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	104	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	105	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	106	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	107	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	108	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
	109	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	110	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	111	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20
	112	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
	113	Normal Scheduled Sacri	ifice				GD 6-PND PND 21	20

		INDIVII	DUAL	CLINIC	CAL S	SIGNS				
STUDY: GD 6-PN	200 ND 21	GROUP: DOSE:	1-F 0 (mg	base/kg/d	ay)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS				SEVE	YTI	LOC	TIME	occi	TRRED
114	Normal Scheduled Sacri	ifice						GD 6 PND	-PND	20
115	Normal Scheduled Sacri	ifice						GD 6 PND	-PND 21	20
116	Normal Scheduled Sacri	ifice						GD 6 PND	-PND 21	20
117	Normal Scheduled Sacr:	ifice						GD 6 PND	-PND 21	20
118	Normal Scheduled Sacri	ifice						GD 6 PND	-PND 21	20
119	Normal Scheduled Sacr	ifice						GD 6 PND	-PND 21	20
120	Normal Scheduled Sacri	ifice						GD 6	-PND 21	20
121	Normal Scheduled Sacri	ifice						GD 6 PND	-PND 21	20
122	Normal Scheduled Sacri	ifice						GD 6 PND	-PND 21	20
123	Normal Scheduled Sacri	ifice						GD 6 PND	-PND 21	20
124	Normal Scheduled Sacri	ifice						GD 6 PND	-PND 21	20
125	Normal Scheduled Sacri	ifice						GD 6 PND	-PND 21	20

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				INDIVII	DUAL	CLINI	CAL S	IGNS				
ST GD	UDY: 200 6-PND 2	1	I	GROUP: DOSE:	2-F 2 (mg	base/kg/	day)	SEX:	FEMALE			
ANIMA	L # OBS	ERVATIO	NS	• • • • • • • • • • • • • • • • • • • •			SEVER	ITY	LOC	TIME	occt	RRED
12	6 Nor	mal eduled :	Sacri	fice						GD 6	PND	20
12		mal eduled :	Sacri	fice						GD 6	PND	20
12	8 Nor	mal eduled :	Sacri	fice						GD 6	PND	20
12	9 Nor	mal eduled .	Sacri	fice						GD 6	PND	20
13		mal eduled	Sacri	fice						GD 6		20
13	1 Nor Sch	mal eduled	Sacri	fice						GD 6		20
13.		mal eduled	Sacri	fice						GD 6		20
13	3 Nor Sch	mal eduled	Sacri	fice						GD 6	-PND	20
13	4 Nor Sch	mal eduled	Sacri	fice						GD 6	-PND 21	20
13	5 Nor Sch	mal eduled	Sacri	fice						GD 6	-PND 21	20
13	6 Nor Sch	mal eduled	Sacri	fice						GD 6	-PND	20
13		mal eduled	Sacri	fice						GD 6	-PND 21	20
13	8 Nor Sch	mal eduled	Sacri	fice						GD 6		20

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			UAL CLINICA	AL SIGNS			
STUDY: GD 6-PI	200 ND 21	GROUP: 2	2-F 2 (mg base/kg/day	SEX:	FEMALE		
-NIMAL #	OBSERVATIONS		SI	EVERITY	LOC	TIME OCCU	JRRED
139	Normal Scheduled Sacr					GD 6-PND PND 21	20
140	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
141	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
142	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
143	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
144	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
145	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
146	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
147	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
148	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
149	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20
150	Normal Scheduled Sacr	ifice				GD 6-PND PND 21	20

1		DUAL CLINICAL SIG			
STUDY: GD 6-P	200 GROUP: ND 21 DOSE:	3-F = SI 6 (mg base/kg/day)	EX: FEMALE		
ANIMAL #	OBSERVATIONS	SEVERIT	Y LOC	TIME OCCUR	RED
151	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
152	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
153	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
154	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
155	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
156	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
157	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
158	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
159	Normal Sacrificed ^a			GD 6-PND 3 GD 25	
160	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
161	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
162	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0
163	Normal Scheduled Sacrifice			GD 6-PND 2 PND 21	0

 $^{{}^{\}mathrm{a}}\mathrm{F_{0}}$ dam No. 159 was not pregnant and was sacrificed on GD25.

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	INDIVII	DUAL CLINICA	L SIGNS			
200 ND 21			SEX:	FEMALE		
OBSERVATIONS		SE'	VERITY	LOC	TIME O	CCURRED
Normal Scheduled Sacri	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice .				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-PI PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-P2 PND 21	ND 20
Normal Scheduled Sacr	ifice				GD 6-P PND 21	ND 20
	OBSERVATIONS Normal Scheduled Sacri Normal	200 GROUP: ND 21 DOSE: OBSERVATIONS Normal Scheduled Sacrifice	200 GROUP: 3-F ND 21 DOSE: 6 (mg base/kg/day) OBSERVATIONS SE Normal Scheduled Sacrifice	ND 21 OBSERVATIONS SEVERITY Normal Scheduled Sacrifice Normal Scheduled Sacrifice	200 GROUP: 3-F SEX: FEMALE ND 21 DOSE: 6 (mg base/kg/day) OBSERVATIONS SEVERITY LOC Normal Scheduled Sacrifice	200 GROUP: 3-F SEX: FEMALE ND 21 DOSE: 6 (mg base/kg/day) OBSERVATIONS SEVERITY LOC TIME OF Scheduled Sacrifice Normal Scheduled Sacrifice

1		INDIVI	DUAL CLINIC	AL SIC	GNS			
STUDY: GD 6-P1	200 ND 21	GROUP: DOSE:	4-F 18 (mg base/kg/c	day)	SEX:	FEMALE		
ANIMAL #	OBSERVATIONS		S	EVERIT	ΓY	LOC	TIME OCC	JRRED
176	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
177	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
178	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
179	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
180	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
181	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
182	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
183	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
184	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
185	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
186	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
187	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20
188	Normal Scheduled Sacr	ifice					GD 6-PND PND 21	20



						L
	INDIVI	DUAL	CLINICAL	SIGNS		
TUDY:					FEMALE	•

	STUDY: GD 6-Pl	200 ND 21	GROUP: 4- DOSE: 18	F (mg base/kg/day)	SEX: FEM	ALE	
١	ANIMAL #	OBSERVATIONS		SEVER	RITY L	OC TIME	OCCURRED
	189	Normal Scheduled Sacri	fice			GD 6- PND 2	-PND 20
	190	Normal Scheduled Sacri	fice			GD 6- PND 2	PND 20
	191	Normal Scheduled Sacri	fice			GD 6- PND 2	PND 20
	192	Normal Scheduled Sacri	fice			GD 6- PND 2	PND 20
	193	Normal Scheduled Sacri	fice			GD 6-PND 2	PND 20
	194	Normal Scheduled Sacri	fice			GD 6- PND 2	-PND 20 21
	195	Normal Scheduled Sacri	lfice			GD 6- PND 2	PND 20
	196	Normal Scheduled Sacri	fice			GD 6	PND 20
	197	Normal Scheduled Sacri	lfice			GD 6	-PND 20 21
	198	Normal Scheduled Sacri	lfice			GD 6	-PND 20 21
	199	Normal Scheduled Sacri	fice			GD 6- PND 2	-PND 20 21
	200	Normal Scheduled Sacri	lfice			GD 6- PND 2	-PND 20 21

						L L	نا نا د	,
	SU	MMARY OF OBSE	RVATIO	N INCID	ENCE			d
STUDY: 200			SEX:	FEMALE	•••••			
	PERIOD	DOSE: (mg base/kg/day GROUP:	') 0 1-F	2 2- F	6 3-F	18 4-F		
	GO 6 No. Observed Normal		25 25 100%		25 25 100%			
	GO 7 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%	25 25 100%		
	GD 8 No. Observed Normal		25 25 100%		25 25 100%			
	GD 9 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%	25 25 100%		
	GO 10 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%			
	GD 11 No. Observed Normal		25 25 100%		25 25 100%	25 25 100%		
	GD 12 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%			
	GD 13 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%			
	GO 14 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%			

25 25 100% 25 25 100% 25 25 100%

25 100%

GO 15

Normal

No. Observed

ORAL PRENATAL AND POSTNATAL DEVELOPMENT

STUDY OF WR238605 SUCCINATE IN RATS			\Box	573	C.3	
				;		_
SUMMARY OF OBSERVATION INCIDENCE	-	6.0	5.7		3	

ALE	FEMALE	SEX:			200	STUDY:	
2 6 18 2-F 3-F 4-F	2 2-F	y) 0 1-F	DOSE: (mg base/kg/da GROUP:	PERIOD			
				GD 16			
25 25 00% 25 100% 25 100%	25 25 100%	25 25 100%		No. Observed			
		25 100.0					
25	25	25		GD 17			
25 25 00% 25 100% 25 100%	25 100%	25 100%		No. Observed Normal			
25 25	25	25		GD 18			
25 25 00% 25 100% 25 100%	25 25 100%	25 25 100%		No. Observed			
95	25	25		GD 19			
25 25 00% 25 100% 25 100%	25 100%	25 100%		No. Observed Normal			
23 100%	25 100%	23 100.0					
25	25	25		GD 20			
25 25 00% 25 100% 25 100%	25 100%	25 100%		No. Observed Normal			
20 1000 20 1000							
25	25	25		GD 21			
25 25 DO% 25 1DD% 25 1DD%	25 1D0%	25 100%		No. Observed Normal			
25 25	25	25		PND 0			
00% 25 100% 25 100%	25 100%	25 100%		No. Observed			
20 10010	-						
25 25	25	25		PND 1 No. Observed			
25 25 00% 25 100% 25 100%	25 100%	25 100%		Normal			
				Management of the Control of the Con			
25 25	25	25		PND 2 No. Observed			
25 25 00% 25 100% 25 100%	25 100%	25 100%		Normal			
25 25	25	25		PND 3 No. Observed			
00% 25 100% 25 100%	25 100%	25 100%		Normal			
				(117 - 237 - 247			

SUMMARY OF OBSERVATION INCIDENCE STUDY: 200 SEX: FEMALE DOSE: (mg base/kg/day) 0 2 18 PERIOD 2-F GROUP: 1-F PND 4 No. Observed 25 25 25 Normal 25 100% 25 100% 24 96% 25 100% Sacrificed a 0 4% 0 PND 5 No. Observed 25 100% 25 100% 24 100% Normal 25 100% No. Observed 25 25 24 25 25 100% 25 100% 24 100% Normal 25 100% PND 7 No. Observed 25 25 24 25 25 100% Normal 25 100% 24 100% 25 100% PND 8 No. Observed 24 25 25 100% 25 100% Normal 24 100% 25 100% PND 9 No. Observed 25 25 25 24 Normal 25 100% 25 100% 24 100% 25 100% PND 10 No. Observed 25 25 Normal 25 100% 25 100% 24 100% 25 100% PND 11 No. Observed 24 Normal 25 100% 25 100% 24 100% 25 100% **PND 12** No. Observed 25 25 24 25 25 100% Normal 25 100% 24 100% 25 100% PND 13

25

25 100%

25

25 100%

24

24 100%

25

25 100%

No. Observed

Normal

^aF₀ dam No. 159 at 6 mg base/kg/day was not pregnant and was sacrificed on GD 25 (GD25 for this dam corresponded with PND4 for the group).

[]		53	F17	3
1			1	
	-	44		

		su	MMARY OF OBSER	VATIO	ON INCID	ENCE		,
STUDY:	200			SEX-:	FEMALE			
 		PERIOD	OOSE:(mg base/kg/day) GROUP:	0 1-F	2 2-F	6 3-F	18 4-F	
		GD 14 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%	25 25 100%	
		GO 15 No. Observed Normal	;	25 25 100%	25 25 100%	25 25 100%	25 25 100%	
		GD 16 No. Observed Normal			25 25 100%			
		GO 17 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%	25 25 100%	
		GD 18 No. Observed Normal	×	25 25 100%	25 25 100%	25 25 100%	25 25 100%	
		GO 19 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%	25 25 100%	
		GD 20 No. Observed Normal	:	25 25 100%	25 25 100%	25 25 100%	25 25 100%	
		GD 21 No. Observed Normal		25 25 100%	25 25 100%	25 25 100%	25 25 100%	

APPENDIX C

INDIVIDUAL ${\rm F_{\scriptscriptstyle 0}}$ GENERATION BODY WEIGHTS AND WEIGHT GAIN

INDIVIDUAL BODY WEIGHTS (Grams)											
STUDY: 200 GROUP: 1-F SEX: FEMALE											
DOSE: 0 (mg base/kg/day)											
ANIMAL # GD 0 GD 5 GD 6 GD 9 GD 12 GD 15 GD 18 GD 20 PND 0 PND 4 PNI	7 PND 10										
101 203 233 242 258 273 298 324 343 286 283 29	98 313										
	08 318										
	38 369										
	24 325										
	93 297										
	97 296										
	10 314										
	85 290										
	88 297										
	08 318										
	82 291										
	87 287										
	87 297										
	15 332										
	20 338										
	29 333										
	77 291										
	77 321										
	12 328										
	19 331										
	98 293										
	95 315										
	13 337										
	93 312										
	18 329										
200 200 200 201 300 341 313 271 310 3	10 527										
MEAN 201 233 239 254 269 293 322 351 274 292 3	03 315										
S.D. 5.0 7.6 8.7 10.7 18.9 13.4 15.9 18.3 13.2 14.2 16											
N 25 25 25 25 25 25 25 25 25 25 25 25 25											
: Data Unavailable											

ORAL PRENATAL AND POSTNATAL DEVELOPMENTS

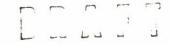
	INDIV	IDUAL	BODY	WEIGH	TS (Grams)	
STUDY: 200	GROUP DOSE: ANIMAL #	O (mg PND 14	base/kg/d PND 17	day) PND 21	SEX: FEMALE	,
	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 MEAN S.D. N	331 319 381 334 305 301 327 297 295 332 293 287 291 350 352 355 309 344 345 356 333 352 343 351 329 25.3 25.3	332 334 360 345 319 301 316 307 302 335 358 308 307 361 341 353 302 330 335 346 333 346 333 346 312 351	326 312 353 315 297 300 315 288 308 322 277 294 293 339 340 302 324 328 345 301 326 351 302 338		

				IN	DIVIDU	AL BO	DY WEI	GHTS (Grams)				
STU	JDY: 20	00		GRO DOS	OUP: 2	-F (mg bas	e/kg/day)	SE	X: FEN	1ALE			
ANIMAL #	GD 0	GD 5	GD 6	GD 9	GD 12	GD 15	GD 18	GD 20	PND 0	PND 4	PND 7	PND 10	
126	204	234	221	264	282	308	338	363	301	312	325	327	
127	203	239	249	263	282	311	358	392	303	303	322	321	
128	205	234	243	256	267	288	317	335	269	272	280	294	
129	205	233	243	249	275	302	328	352	279	286	299	309	
130	199	229	233	249	267	293	330	356	272	286	294	310	
131	194	222	229	241	257	280	318	345	264	262	287	294	
132	200	237	239	257	276	292	310	339	275	308	312	318	
133	204	234	237	248	260	283	305	340	264	286	285	288	
134	195	217	222	233	250	263	290	319	243	214	251	262	
135	198	229	230	244	261	271	293	323	257	273	282	291	
136	194	223	228	241	262	277	301	328	250	273	281	284	
137	196	227	230	246	260	280	308	341	250	276	278	282	
138	206	240	243	254	267	285	311	347	264	285	284	286	
139	203	241	238	264	272	295	321	346	273	286	301	311	
140	194	229	222	246	258	283	309	343	275	270	288	303	
141	200	245	244	269	284	313	352	375	298	318	318	337	
142	200	233	232	257	266	290	318	349	275	287	292	337	
143	200	239	234	264	271	295	318	347	278	289	303	323	
144	200	230	231	248	258	281	313	351	254	290	297	311	
145	210	239	245	265	288	303	329	359	303	308	311	324	
146	201	237	243	261	283	300	332	361	301	302	285	341	
147	209	236	241	253	268	288	316	346	268	274	285	341	
148	201	232	239	254	248	260	291	309	242	261	285	289	
149	209	245	252	271	291	315	347	377	297	312	338	341	
150	199	223	228	241	261	274	310	330	258	288	302	309	
MEAN	201	233	236	254	269	289	319	347	273	285	295	309	
S.D.	4.7	7.1	8.5	10.0	11.6	14.7	17.7	18.5	19.0	21.7	18.5	21.8	
N	25	25	25	25	25		25	25	25	25	25	25	
					: [ata Unava							



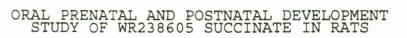
STUDY: 200

INDIVI	DUAL :	BODY	WEIGHT	S (Gram	es)	
GROUP: DOSE: ANIMAL#	2 (mg	base/kg/	'day)		FEMALE	
12/	77.	7.0	700			
126	336					
127	328	339	316			
128	304	305	308			
129	313	319	306			
130	311	314	289			
131	308	308	302			
132	326	332	298			
133	292	302	290			
134	274	268	268			
135	286	306	276			
136	287	292	278			
137	290	291	251			
138	298	310	292			
139	326	312	314			
140	316	321	301			
141	340	316	317			
142	321	321	315			
143	341	331	332			
144	326	321	319			
145	336	318	326			
146	380	372	335			
147			297			
148	315	314	318			
149	369	352	344			
150	325	316	298			
MEAN	318	317	304			
	24.8					
N	25	25	25			
	-: Data U	navailab	le			



				IN	DIVIDU	AL BO	DY WEI	GHTS	(Grams)				
STU	JDY: 20	00		GRO DOS	DUP: 3	-F	e/kg/day)	SE	X: FEN	MALE			-
ANIMAL #	GO 0	GD 5	GD 6	GO 9	GO 12	GO 15	GD 18	GO 20	PNO 0	PNO 4	PNO 7	PND 10	
151	204	244	252	262	281	305	340	358	295	298	325	332	
152	194	220	228	250	265	290	325	352	273	291	298	305	
153	204	227	232	245	263	285	315	327	261	273	294	306	
154	200	232	237	239	261	280	314	333	250	269	277	281	
155	206	234	242	247	267	291	321	344	260	271	278	289	
156	206	239	244	237	261	288	323	349	266	273	288	294	
157	193	226	228	234	253	279	300	332	252	275	287	297	
158	192	218	220	236	251	271	302	336	256	261	277	280	
159 a													
160	207	237	241	241	260	279	305	336	257	270	273	286	
161	202	230	232	243	261	282	311	342	266	283	283	285	
162	209	240	243	256	266	283	301	332	266	285	300	307	
163	205	235	238	249	266	287	315	346	249	285	284	303	
164	205	239	235	252	268	286	309	338	275	278	292	309	
165	202	233	233	242	259	283	302	336	267	271	305	304	
166	208	242	238	253	263	283	297	323	256	271	289	300	
167	200	232	230	244	261	286	312	335	271	271	291	298	
168	208	245	241	266	279	307	330	370	289	292	303	316	
169	200	228	221	239	252	272	285	308	261	256	280	292	
170	202	230	230	246	260	278	306	335	240	270	283	289	
171	200	227	235	242	270	295	320	348	282	282	303	327	
172	206	234	242	250	279	293	330	357	266	278	285	300	
173	208	239	239	262	284	304	326	357	287	300	311	321	
174	206	242	248	268	288	308	348	374	284	314	322	310	
175	204	237	241	262	281	299	341	372	285	289	304	325	
MEAN	203	234	236	249	267	288	316	343	267	279	293	302	
S.O.	4.7	7.1	7.8	9.8	10.3	10.5	15.3	15.9	14.2	13.2	13.9	14.4	
N	24	24	24	24	24	24	24	24	24	24	24	24	
						ata Unava							

^aF_o dam No. 159 was not pregnant.





	INDIV	IDUAL	BODY	WEIGH	TS (Grams	;)		
STUDY: 200	GROUP DOSE:	: 3-F	hase/kg/c	day)	SEX:	FEMALE	 	
	ANIMAL #	PND 14	PND 17	PND 21				
	151	353	347	342				
	152	326	314	310				
	153	307	316	294				
	154	299	287	288				
	155	298	299	275				
	156	298	304	287				
	157	312	318	302				
	158	304	285	284				
	159 a							
	160	292	296	292				
	161	296	297	279				
	162	310	311	273				
	163	329	315	319				
	164	331	325	333				
	165	332	339	333				
	166	315	330	317				
	167	321	321	314				
	168	331	337	326				
	169	303	297	293				
	170	321	315	327				
	171	342	342	334				
	172	325	308	318				
	173	353	336	329				
	174	355	344	353				
	175	327	329	326				
	MEAN	320	317	310				
	S.D.	18.8	18.3	22.9				
	N	24	24	24				
		: Data L	Jnavai lab	le				

^aF_o dam No. 159 was not pregnant.

				-3
1			1	
-	-	4 4		ال

				INI	DIVIDU	IAL BO	DY WEI	GHTS	(Grams)				
STU	JDY: 2	00		GRO	OUP: 4	-F 8 (mg ba	= se/kg/dav	SE	X: FE	MALE			
ANIMAL #	GO 0	GO 5	GD 6		GD 12		GO 18		PND 0	PND 4	PND 7	PNO 10	
176	195	232	244	250	249	241	270	287	231	246	269	267	
177	208	226	236	246	254	261	290	298	236	239	258	255	
178	200	239	250	269	286	290	328	337	260	278	284	281	
179	200	229	236	240	241	260	281	297	233	249	257	277	
180	205	236	244	259	264	275	294	300	233	243	259	265	
181	200	234	243	240	239	260	272	298	238	243	266	261	
182	204	246	246	245	237	263	286	317	243	265	255	269	
183	204	231	237	249	260	277	315	341	252	280	282	293	
184	200	229	235	246	263	279	296	330	236	264	252	267	
185	192	223	227	239	251	256	280	309	235	254	266	270	
186	192	217	223	228	241	243	250	280	226	234	242	253	
187	204	236	242	254	263	267	283	310	237	259	268	281	
188	195	230	229	229	243	249	281	309	231	257	273	281	
189	206	229	232	229	236	254	270	303	240	236	238	252	
190	206	234	232	222	243	260	286	310	237	257	272	277	
191	199	242	236	247	260	272	303	328	263	267	278	294	
192	202	245	242	243	257	271	292	310	245	252	256	269	
193	201	237	235	241	247	274	309	341	258	262	275	286	
194	208	235	241	253	253	266	311	342	255	264	267	287	
195	200	237	243	262	278	291	310	345	265	263	266	293	
196	203	236	241	256	263	269	305	324	259	260	259	275	
197	210	238	239	251	264	277	300	323	250	252	267	271	
198	210	242	247	252	264	273	309	325	263	272	276	285	
199	209	232	238	234	236	251	271	290	228	236	259	258	
200	203	226	229	242	257	272	304	325	240	264	267	269	
MEAN	202	234	238	245	254	266	292	315	244	256	264	273	
S.D.	5.1	6.8	6.7	11.2	13.0	12.9	17.9	18.6	12.2	12.8	11.2	12.4	
N	25	25	25	25	25	25	25	25	25	25	25	25	
					: [Data Unava	ailable						



						U
	INDIV	IDUAL	BODY	WEIGH	TS (Grams)	
STUDY: 200	GROUP DOSE: ANIMAL #	18 (m	g base/kg	/day)	SEX: FEMALE	
	176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 MEAN S.D.	276 275 273 284 255 272 284 310 269 270 254 281 300 257 281 304 283 295 296 307 287 292 298 273 303	279 287 290 295 266 280 306 311 298 292 252 273 301 260 293 321 292 249 293 308 295 287 307 278 302	275 292 279 301 271 291 282 310 291 274 261 290 306 267 307 326 301 263 313 321 308 313 301 294 312		
		: Data t				



				INDIV	LDUAL	WEIG	IT GA.	LN (Gram	s) ^a		Terrera
STUDY:	200			GROUP: DOSE:	1-F 0 (mg	base/kg/d	ay)	SEX:	FEMAL:	Ε	
ANIMAL #	GD 9 b	GD 12	GD 15	GD 18	GD 20	PND 0	PND 4	PND 7	PND 10	PND 14	PND 17
404	4/	45	25					45	45	40	4
101	16	15	25	26	19	-57	-3	15	15	18	1
102	14	16	25	39	17	-72	12	13	10	1	15
103	18	21	26	36	30	-89	33	12	31	12	-21
104	-21	-31	83	37	1	-48	35	18	1	9	11
105	9	18	21	33	16	-65	10	17	4	8	14
106	10	15	25	29	20	-73	21	20	-1	5	0
107	12	12	24	30	15	-55	3	23	4	13	-11
108	12	13	11	24	28	-73	20	11	5	7	10
109	19	11	17	25	28	-67	27	1	9	-2	7
110	18	23	15	25	39	-82	17	1	10	14	3
111	15	19	27	26	33	-78	5	7	9	2	65
112	13	20	17	27	37	-90	34	-1	0	0	21
113	15	17	15	24	33	-78	25	4	10	-6	16
114	29	12	27	-16	79	-94	21	17	17	18	11
115	16	21	26	29	40	-87	14	17	18	14	-11
116	22	21	23	21	22	-70	19	26	4	22	- 2
117	18	14	20	29	29	-79	19	-1	14	18	-7
118	22	10	25	34	34	-86	33	-19	44	23	-14
119	24	15	31	34	31	-87	21	9	16	17	-10
120	17	25	21	35	27	-82	- 16	10	12	25	-10
121	12	D	23	35	27	-79	14	2D	-5	40	0
122	14	20	19	29	26	-71	6	9	20	18	-10
123	19	21	19	31	32	-83	16	19	24	15	-6
124	17	25	20	36	40	-100	13	11	19	31	-31
125	13	18	27	33	32	-82	27	0	11	22	0
MEAN	15	15	24	28	29	-77	18	10	12	14	2
S.D.	8.8	11.0	13.1	10.4	13.7	12.3	10.0	9.9	10.7	10.7	18.1
N	25	25	25	25	25	25	25	25	25	25	25

^aWeight gains compared to the previous period. ^bBaseline is GD6.



			[GAIN (Grams)
STUDY: 200	GROUP: 1-F DOSE: 0 (m	-	SEX: FEMALE

		TOTAL	
ANIMAL #	PND 21	GAIN	
101	-6	84	
102	-22	68	
103	-7	102	
104	-30	65	
105	-22	63	
106	- 1	70	
107	-1	69	
108	-19	49	
109	6	81	
110	-13	70	
111	-81	49	
112	-14	64	
113	-14	61	
114	-22	99	
115	-2	95	
116	-13	95	
117	0	74	
118	-6	100	
119	-7	94	
120	-1	95	
121	-32	55	
122	3	83	
123	5	112	
124	-10	71	
125	-13	88	
MEAN	-13	78	
S.D.	17.6	17.6	
N	25	25	

^aWeight gains compared to the previous period.

--: Data Unavailable b: Scheduled Sacrifice



 				INDIV	IDUAL	WEIG	HT GAI	I N (Grams	s) ^a			
 STUDY:	200			GROUP: DOSE:	2-F 2 (mg	base/kg/c	lay)	SEX:	FEMAL	Ε		
ANIMAL #	GD 9 b	GD 12	GD 15	GD 18	GD 20	PND 0	PND 4	PND 7	PND 10	PND 14	PND 17	
 		40		7.0				47				
126	43	18	26	30	25	-62	11	13	2	9	9	
127	14	19	29	47	34	-89	0	19	-1		11	
128	13	11	21	29	18	-66	3 7	8	14	10		
129	6	26	27	26	24	-73	,,	13	10	4	6	
130	16	18	26	37	26	-84	14.	8	16	4.4	0	
131	12	16	23	38	27	-81	-2	25	7	14		
132	18	19	16	18	29	-64	33	4	6	8	6	
133	11	12	23	22	35	-76	22	-1	3	4	10	
134	11	17	13	27	29	-76	-29	37	11	12	-6	
135	14	17	10	22	30	-66	16	9	9	-5	20	
136	13	21	15	24	27	-78	23	8	3	3	5	
137	16	14	20	28	33	-91	26	2	4	8	1	
138	11	13	18	26	36	-83	21	-1	2	12	12	
139	26	8	23	26	25	-73	13	15	10	15	-14	
140	24	12	25	26	34	-68	-5	18	15	13	5	
141	25	15	29	39	23	-77	20	0	19	3	-24	
142	25	9	24	28	31	-74	12	5	45	-16	0	
143	30	7	24	23	29	-69	11	14	20	18	-10	
144	17	10	23	32	38	-97	36	7	14	15	-5	
145	20	23	15	26	30	-56	5	3	13	12	-18	
146	18	22	17	32	29	-60	1	-17	56	39	-8	
147	12	15	20	28	30	-78	6	11	56	-36	- 13	
148	15	-6	12	31	18	-67	19	24	4	26	-1	
149	19	20	24	32	30	-80	15	26	3	28	- 17	
150	13	20	13	36	20	-72	30	14	7	16	-9	
MEAN	18	15	21	29	28	-74	12	11	14	9	-1	
S.D.	7.8	6.6	5.5	6.4	5.3	9.9	13.8	11.0	15.6	14.2	10.8	
N	25	25	25	25	25	25	25	25	25	25	25	
					: Data L	Jnavai lab	e					

^aWeight gains compared to the previous period.

^bBaseline is GD6.

	INDIV	IDUAL	WEIGHT	GAIN	(Gram	s)a
(EDOTID.	2-5	-	CI	ZV.	PEMALE

STUDY: 2	00	GROUP: DOSE:	base/kg/day)	SEX:	FEMAL
			TOTAL		

			IUIAL	
	ANIMAL #	PND 21	GAIN	
• • • • • • • • • • • • • • • • • • • •				
	126	-23	101	
	127	- 23	67	
	128	3	65	
	129	-13	63	
	130	-25	56	
	131	-6	73	
	132	-34	59	
	133	-12	53	
	134	0	46	
	135	-30	46	
	136	-14	50	
	137	-40	21	
	138	-18	49	
	139	2	76	
	140	-20	79	
	141	1	73	
	142	-6	83	
	143	1	98	
	144	-2	88	
	145	8	81	
	146	-37	92	
	147	5	56	
	148	4	79	
	149	-8	92	
	150	-18	70	
	MEAN	-12	69	
	S.D.	14.1	19.1	
	N	25	25	
: Data	Unavailable		duled Sacri	fice

^aWeight gains compared to the previous period.

				5
8			3	ŧ
_	-	44	4.3	u

 				INDIV	IDUAL	WEIG	HT GA	IN (Gram	s) ^a			
STUDY:	200			GROUP: DOSE:	3-F 6 (mg	base/kg7da	ay)	SEX:	FEMAL	Ε		
ANIMAL #	GD 9 b	GD 12	GD 15	GD 18	GD 20	PND 0	PND 4	PND 7	PND 10	PND 14	PND 17	
 151	10	19	24	35	18	-63	3	27	7	21	-6	
152	22	15	25	35	27	-79	18	7	7	21	-12	
153	13	18	22	30	12	-66	12	21	12	1	9	
154	2	22	19	34	19	-83	19	8	4	18	-12	
155	5	20	24	30	23	-84	11	7	11	9	1	
156	-7	24	27	35	26	-83	7	15	6	4	6	
157	6	19	26	21	32	-80	23	12	10	15	6	
158	16	15	20	31	34	-80	5	16	3	24	-19	
159 C				31	34	-00					- 19	
160	0	19	19	26	31	-79	13	3	13	6		
161	11	18	21	29	31	-76	17	0	2	11	1	
162	13	10	17	18	31	-66	19	15	7	3	1	
163	11	17	21	28	31	-97	36	-1	19	26	-14	
164	17	16	18	23	29	-63	3	14	17	22	-6	
165	9	17	24	19	34	-69	4	34	-1	28	7	
166	15	10	20	14	26	-67	15	18	11	15	15	
167	14	17	25	26	23	-64	ő	20	7	23	Ó	
168	25	13	28	23	40	-81	3	11	13	15	6	
169	18	13	20	13	23	-47	-5	24	12	11	-6	
170	16	14	18	28	29	-95	30	13	6	32	-6	
171	7	28	25	25	28	-66	0	21	24	15	0	
172	8	29	14	37	27	-91	12	7	15	25	-17	
173	23	22	20	22	31	-70	13	11	10	32	-17	
174	20	20	20	40	26	-90	30	8	-12	45	-11	
175	21	19	18	42	31	-87	4	15	21	2	2	
MEAN	12	18	21	28	28	-76	12	14	9	18	-3	
S.D.	7.8	4.8	3.5	7.7	5.9	12.1	10.5	8.4	7.6	10.9	9.3	
N	24	24	24	24	24	24	24	24	24	24	24	
					: Data L	Jnava i labl	e					

^aWeight gains compared to the previous period. ^bBaseline is GD6.

^cF_o dam No. 159 was not pregnant.



INDI	IVI	D	UAL	WEIGHT	GAIN	(Gra	ms) ^a		
GROUE		3	- F	_	S	EX .	FEN	TAN	Æ

STUDY: 200

GROUP: 3-DOSE: 6(n	F =		SEX:
DOSL. 0 (11	ig base/kg/day)	TOTAL	
ANIMAL #	PND 21	TOTAL	
 ANIMAL #	PNU ZI	GAIN	
151	-5	90	
152	-4	82	
153	-22	62	
154	1	51	
155	- 24	33	
156	-17	43	
157	-16	74	
158	-1	64	
159 C			
160	-4	51	
161	- 18	47	
162	-38	30	
163	4	81	
164	8	98	
165	-6	100	
166	-13	79	
167	-7	84	
168	-11	85	
169	-4	72	
170	12	97	
171	-8	99	
172	10	76	
173	-7	90	
174	9	105	
175	-3	85	
MEAN	-7	74	
S.D.	11.8	21.8	
N.	24	2/	

--: Data Unavailable

b: Scheduled Sacrifice

 $^{^{\}rm a}\mbox{Weight gains compared to the previous period.}$ $^{\rm c}\mbox{F}_{\rm o}$ dam No. 159 was not pregnant.

											L	44 4	u .
-					INDIV	IDUAL	WEIG	HT GA	I N (Gran	ns) ^a			
	STUDY:	200	*****		GROUP: DOSE:	4-F 18(mg	base/kg/		SEX:	FEMAL	E		
	ANIMAL #	GD 9 b	GD 12	GD 15	GD 18	GD 20	PND 0	PND 4	PND 7	PND 10	PND 14	PND 17	
-	176	6	-1	-8	29	17	-56	15	23	-2	9	3	
	177	10	8	7	29	8	-62	3	19	-3	20	12	
	178	19	17	4	38	9	-77	18	6	-3	-8	17	
	179	4	1	19	21	16	-64	16	8	20	7	11	
	180	15	5	11	19	6	-67	10	16	6	-10	11	
	181	-3	-1	21	12	26	-60	5	23	-5	11	8	
	182	-1	-8	26	23	31	-74	22	-10	14	15	22	
	183	12	11	17	38	26	-89	28	2	11	17	1	
	184	11	17	16	17	34	-94	28	-12	15	2	29	
	185	12	12	5	24	29	-74	19	12	4	0	22	
	186	5	13	2	7	30	-54	8	8	11	1	-2	
	187	12	9	4	16	27	-73	22	9	13	0	-8	
	188	0	14	6	32	28	-78	26	16	8	19	1	
	189	-3	7	18	16	33	-63	-4	2	14	5	3	
	190	-10	21	17	26	24	-73	20	15	5	4	12	
	191	11	13	12	31	25	-65	4	11	16	10	17	
	192	1	14	14	21	18	-65	7	4	13	14	9	
	193	6	6	27	35	32	-83	4	13	11	9	-46	
	194	12	0	13	45	31	-87	9	3	20	9	-3	
	195	19	16	13	19	35	-80	-2	3	27	14	1	
	196	15	7	6	36	19	-65	1	- 1	16	12	8	
	197	12	13	13	23	23	-73	2	15	4	21	-5 9	
	198	5	12	9	36	16	-62	9	4	9	13		
	199	-4	2	15	20	19	-62	8	23	-1	15	5	
	200	13	15	15	32	21	-85	24	3	2	34	-1	
	MEAN	7	9	12	26	23	-71	12	9	9	10	5	
	S.D.	7.6	7.1	7.8	9.3	8.2	10.7	9.7	9.2	8.2	9.5	14.0	
	N	25	25	25	25	25	25 Unavailahi	25	25	25	25	25	
						UNTR	uriava i i ani	gar					

^aWeight gains compared to the previous period. ^bBaseline is GD6.

			-	
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-	-	LJ	-	44

	TTT	9 8	\sim	_	^
ST	(111)	Y	2	()	()
	02	-	-	•	\sim

GROUP: 4-F SEX: FEMALE DOSE: 18 (mg base/kg/day)

		TOTAL	
ANIMAL #	PND 21	GAIN	
176	-4	31	
177	5	56	
178	-11	29	
179	6	65	
180	5	27	
181	11	48	
182	-24	36	
183	-1	73	
184	-7	56	
185	-18	47	
186	9	38	
187	17	48	
188	5	77	
189	7	35	
190	14	75	
191	5	90	
192	9	59	
193	14	28	
194	20	72	
195	13	78	
196	13	67	
197	26	74	
198	-6	54	
199	16	56	
200	10	83	
MEAN	5	56	
S.D.	11.8	18.9	
N	25	25	
: Data Unavailable		duled Sacrif	ice

^aWeight gains compared to the previous period.

$\label{eq:appendix} \textbf{APPENDIX D}$ INDIVIDUAL \textbf{F}_{0} GENERATION FOOD CONSUMPTION



	INDIVII	DUAL	DAILY	FOOD	CONST	MPTI	ON (Grams) ^a	
STUDY: 200	GR(OUP: SE:	1-F 0 (mg ba	se/kg/day		EX:	FEMALE	
			GO 12			GD 20		
	101 21	1.7	24.0	23.0	20.3	25.5		
						23.5		
						25.0		
						24.0		
						26.0		
						22.5		
						27.0		
						19.5		
						24.5		
						25.5		
						24.5		
						30.5		
	113 20				26.7	22.5		
	114 26	5.0	26.3	26.3		27.0		
						25.5		
	116 23			26.0	25.0	24.0		
	117 16	5.7				24.5		
	118 20	0.0	21.7	23.3	24.7	24.5		
	119 17	7.7	22.7	25.0	26.3	27.5		
	120 21	1.3	25.0	28.0	28.0	12.5		
	121 25	5.3	23.0	26.0	24.3	22.5		
	122 2	1.7	24.3	24.7	25.7	24.5		
	123 21	1.0	23.0	24.7	24.0	23.5		
	124 20	0.0	23.3	21.7	24.0	21.5		
	125 2	1.3	24.7	26.0	30.0	20.5		
	MEAN 20	0.4	22.2	23.8	24.6	23.9		
						3.31		
		25	25	25	25	25		
			Oata Una		===			

^aCalculated daily food consumption for successive period intervals. ^bBaseline is GD6.



								2	
	IND	IVIDUAL	DAIL	Y FOOI	CON	SUMPT:	ION	(Grams)	
STUDY: 200		GROUP:	2-F	:		SEX:	FEM	ALE	
		DOSE:	2 (mg	base/kg/c	lay)				
	ANIMAL #	GD 9 b	GD 12	GD 15	GD 18	GD 20			
	126	23.0	24.3	23.0	24.7	26.0			
	127	21.0	23.7	23.7	27.0	26.5			
	128	21.0	21.7	23.3	16.0	23.0			
	129	20.0	24.0	25.0	24.0	24.5			
	130	18.7	22.0	21.3	23.3	24.5			
	131	20.3	22.3	22.0	20.0	25.0			
	132	19.7	22.3	22.0	24.0	26.0			
	133	18.3	17.7	20.7	22.7	25.0			
	134	17.3	20.0	18.0	21.7	19.0			
	135	19.0	21.7	17.3	26.0	23.5			
	136	19.7	22.0	20.3	30.3	17.5			
	137	18.0	20.7	21.7	25.3	22.5			
	138		16.3	23.3	30.0	21.0			
	139	22.0	24.0	24.3	26.0	22.5			
	140	15.0	25.7	26.7	24.0	31.5			
	141		25.7	29.3	31.0	28.0			
	142		22.3	23.0	23.0	22.5			
	143	22.7	24.3	25.3	26.0	25.0			
	144	18.3	21.0	23.0	23.3	24.5			
	145	22.0	24.3	26.7	24.7	24.5			
	146	21.7	24.0	24.7	26.3	25.0			
	147	21.3	23.3	25.3	24.7	23.5			
	148	21.0	17.7	20.0	22.3	19.5			
	149	20.7	23.7	21.7	24.3	29.5			
	150	18.3	21.0	22.0	24.3	23.5			
	MEAN	20.3	22.2	22.9	24.6	24.1			
	S.D.	2.16	2.41	2.70	3.14	3.07			
	N.	25	25	25	25	25			
	N			رے Unavailabl		2)			
			. Data	U. I. VE I LEDE					

^aCalculated daily food consumption for successive period intervals. ^bBaseline is GD6.

		INDI	VIDUAL	DAILY	FOOD	CONS	UMPTI	ON	(Grams) ^a	
 STUDY:	200		GROUP:				SEX:	FEM	ALE	
		ANIMAL #	GO 9 b	GD 12		GO 18	GO 20			
 					• • • • • • • • • • • • • • • • • • • •					
			19.3			24.3				
		152	20.0	26.3	23.7	27.0	25.0			
		153			20.7	24.0	20.5			
		154			22.0	22.0	20.5			
		155		22.0	21.0	19.3	21.0			
		156			23.0	23.7	24.0			
		157	15.0	20.0	20.0	22.7	21.0			
		158	20.7		21.0	24.3	22.5			
		159 C								
		160	16.0		19.3	22.0	21.0			
		161	18.7		19.0	21.7	21.0			
		162	21.3	19.0	20.7	22.7	21.0			
		163	18.7	22.0	21.7	23.0	21.0			
		164	18.3	22.0	23.7	20.7	27.5			
		165		19.7	22.7	21.0	23.5			
		166	19.0	20.7	21.3	20.0	19.5			
		167		21.7	22.0	24.3	23.5			
		168	22.0	25.3	25.7	25.7	26.5			
		169	18.7	22.3	22.3	20.3	18.5			
		170		18.0	26.3	19.7	19.0			
		171	16.7	20.7	26.3	24.0	29.5			
		172	17.3		22.7	24.3	23.5			
		173	20.3	21.7	23.7	21.0	21.5			
		174	21.3	21.7	22.7	25.3	26.5			
		175	21.0	23.7	21.3	23.7	24.0			
		MEAN	18.7	21.5	22.3	22.8	22.7			
		S.D.	1.98		1.95	2.03	2.80			
		N			24	24	24			
					available		_			

^aCalculated daily food consumption for successive period intervals. ^bBaseline is GD6. ^cF_o dam No. 159 was not pregnant.



•	INDI	/IDUAL	DAILY	FOOD	CONS	UMPTI	ON	(Grams) ^a	
STUDY: 200		GROUP:		=		SEX:	FEM	IALE	
		DOSE:	18 (mg	base/kg/	day)				
	ANIMAL #	GD 9 D	GD 12	GD 15	GD 18	GO 20			
	176	19.0	14.3	10.7	15.3	17.0			
	177	18.3	16.3	15.0	17.7	14.0			
	178	19.3	31.3	16.0	21.0	17.0			
	179	15.3	12.7	13.7	15.0	16.0			
	180	20.0	19.3	15.3	15.0	14.0			
	181	18.0	12.7	16.7	14.7	19.5			
	182	15.3	7.7	18.0	17.3	18.0			
	183	19.3	19.0	17.0	22.7	18.0			
	184	19.7	19.3	17.0	21.0	19.5			
	185	19.0	18.3	13.7	19.3	18.5			
	186	17.7	15.7	12.7	16.7	16.0			
	187	19.7	18.0	15.7	17.0	17.5			
	188	15.0		17.3	18.3	20.0			
	189	12.3	15.3	16.7	15.7	16.5			
	190	9.0	17.3	17.3	19.0	18.0			
	191	17.7	19.3	18.3	21.7	22.0			
	192	13.3	16.3	18.0	18.7	17.0			
	193	16.7	17.3	21.3	22.0	20.5			
	194	18.7	15.0	17.3	22.0	20.0			
	195	20.7	21.7	20.7	18.7	21.5			
	196	19.3	18.7	16.0	20.3	17.5			
	197	18.7	18.7	17.3	17.7	16.5			
	198	17.3	16.0	16.3	21.0	16.5			
	199	12.7	13.7	15.7	16.3	16.0			
	200	17.0	18.0	19.3	21.3	17.5			
	MEAN	17.2	17.2	16.5	18.6	17.8			
	S.D.	2.87		2.32	2.52	2.05			
	N.	25			25	25			
			: Data Un						

^aCalculated daily food consumption for successive period intervals. ^bBaseline is GD6.

 $\label{eq:appendix} \mbox{APPENDIX E}$ $\mbox{INDIVIDUAL } \mbox{F_0 GENERATION GESTATION DURATION}$



INDIVIDUAL ANIMAL REPORT BY GROUP

STUDY ID: 200F0 STUDY NO: 200F0		٠ .		FEMALE
	Animal ID	DUR a		

GROUP: 1-F:0 mg base/kg/day 101 22.00 22.00 102 103 22.00 104 22.00 105 22.00 22.00 106 22.00 107 22.00 108 109 22.00 22.00 110 111 22.00 112 22.00 22.00 113 114 21.00 115 21.00 22.00 116 117 22.00 118 22.00 119 22.00 120 21.00 121 22.00 122 21.00 21.00 123 124 21.00 125 22.00 MEAN 21.76 SD 0.436 N 25

^aDUR = Gestation Duration.



INDIVIDUAL ANIMAL REPORT BY GROUP

STUDY ID: 200F0 . SEX: FEMALE STUDY NO: 200F0

Animal ID DUR a

days GROUP: 2-F:2 mg base/kg/day 22.00 126 127 22.00 128 22.00 129 22.00 130 22.00 22.00 131 132 22.00 133 22.00 134 22.00 135 22.00 22.00 136 137 22.00 138 22.00 139 22.00 21.00 140 141 22.00 142 21.00 143 22.00 144 22.00 145 21.00 146 21.00 147 21.00 148 22.00 149 21.00 150 22.00 MEAN 21.76 SD 0.436

^aDUR = Gestation Duration.

25

N

L	 L 7 3	u	П

INDIVIDUAL ANIMAL REPORT BY GROUP

STUDY ID: 200F0 SEX: FEMALE STUDY NO: 200F0

Animal ID DUR³ days

GROUP: 3-F:6 mg base/kg/day 22.00 151 152 22.00 22.00 153 154 22.00 155 22.00 22.00 156 157 22.00 158 21.00 159 b 22.00 160 161 22.00 162 22.00 163 22.00 164 21.00 165 21.00 21.00 166 167 21.00 21.00 168 169 21.00 170 22.00 171 21.00 172 21.00 173 22.00 22.00 174 175 21.00 MEAN 21.58 0.504 SD N 24

^aDUR = Gestation Duration.

^bF₀ dam No. 159 was not pregnant.

(--) - Data Unavailable

INDIVIDUAL ANIMAL REPORT BY GROUP

STUDY ID: 200F0
SEX: FEMALE
STUDY NO: 200F0

days GROUP: 4-F:18 mg base/kg/day 176 22.00 177 22.00 178 22.00 179 22.00 22.00 180 181 22.00 22.00 182 183 22.00 184 22.00 185 22.00 186 22.00 187 22.00 188 22.00 189 21.00 190 22.00 191 21.00 192 21.00 193 21.00 194 21.00 195 21.00 196 21.00 197 21.00 198 22.00 199 21.00 200 22.00 MEAN 21.64 0.490 SD 25

^aDUR = Gestation Duration

$\label{eq:appendix} \text{APPENDIX F}$ $\text{INDIVIDUAL F}_{\text{0}} \text{ GENERATION GROSS NECROPSY OBSERVATIONS}$



UIC/TRL Study 200

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS

F₀ Generation: Individual Gross Necropsy Observations

0 mg base/kg/day

Dam No. 123: multiple round, raised areas throughout the jejunum and ileum

2 mg base/kg/dav

Dam No. 141: five raised areas on the jejunum

Dam No. 149: multiple round, raised areas throughout the jejunum and ileum

Dam No. 150: five raise areas on the duodenum and jejunum

Dam No. 171: all lobes of the lungs mottled

6 mg base/kg/day

Dam No. 163: raised areas throughout the jejunum and ileum

Dam No. 174: foci on all lobes of the lungs

18 mg base//kg/day

Dam No. 188: multiple round, raised areas throughout the jejunum and ileum

Dam No. 189: right uterus dark in color with two cysts and blood in the uterine horn

Dam No. 192: nodule on the left uterine horn

APPENDIX G

INDIVIDUAL F. GENERATION OBSERVATIONS (Clinical Signs)

- •Preweaning Period
- •Postweaning Period

F₁ Generation: Individual Litter Preweaning Clinical Signs Data

Dose Level (mg base/kg/day)	Litter No.	Postnatal Day 0	Postnatal Day 4ª	Postnatal Day 7	Postnatal Day 14	Postnatal Day 21
· · · · · · · · · · · · · · · · · · ·	101M/F ⁶	N/HT (2)°	N/N	N/Scab (1)°	N/N	N/N
	100M/F	N/N	NN	N/N	N/N	N/N
	103M/F	N/N	NN	Scab (1)/N	N/N	N/N
	104M/F	N/N	N/N	N/N	N/N	N/N
	105M/F	N/N	N/N	N/N	N/N	N/N
	106M/F	N/N	N/N	N/N	N/N	N/N
	107M/F	HT (1)/N	N/N	N/N	N/N	N/N
	10 9M/ F	HT (1)/HT (1)	N/N	N/N	N/N	N/N
	109M/F	HT (1)/N	N/N	N/N	N/N	N/N
	110M/F	N/HT (1)	N/N	N/N	N/N	N/N
	111M/F	N/N	N/N	N/N	N/N	N/N
0	120M/F	N/N	N/N	N/N	N/N	N/N
	110M/F	N/N	N/N	N/N	N/N	N/N
	116M/F	N/HT (2)	N/N	N/N	N/N	N/N
	116M/F	N/HT (1)	N/N	N/N	N/N	N/N
	116M/F	NN	N/N	N/N	N/N	N/N
	110M/F	HT (1)/N	N/N	N/N	N/N	N/N
	110M/F	N/N	N/N	N/N	N/N	N/N
	119M/F	N/N	N/N	N/N	N/N	N/N
	120M/F	N/N	N/N	N/N	N/N	N/N
	116M/F	N/N	M (1)/N	N/N	N/N	N/N
	122M/F	N/N	D (1)/N	N/N	N/N	N/N
	123M/F	N/N	N/N	N/N	N/N	N/N
	124M/F	N/N	N/N	N/N	N/N	N/N
	125M/F	N/N	N/N	N/N	N/N	N/N

 $^{^{\}circ}$ Litters culled to 4/sex, when possible, after all data was collected on postnatal day 4 $^{\circ}$ M/F = Male pups/Female pups

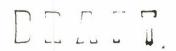
N = Normal

HT = Hematoma

M = Missing (presumed dead/cannibalized)

D = Dead

^{&#}x27;The number in parenthesis is the number of pups displaying the clinical sign



F. Generation: Individual Litter Preweaning Clincal Signs Data

Dose Level (mg base/kg/day)	Litter No.	Postnatal Day 0	Postnatal Day 4ª	Postnatal Day 7	Postnatal Day 14	Postnatal Day 21
	126M/F ^b	HT (1)°/N	N/N	N/N	N/N	N/N
	127M/F	HT (1)/HT (1)	NN	N/N	N/N	NN
	128M/F	HT (2)/N	N/N	N/N	N/N	N/N
	129M/F	N/N	NN	N/N	N/N	N/N
	130M/F	N/N	N/N	N/N	N/N	N/N
	131M/F	N/HT (1)	N/N	N/N	N/N	N/N
	132M/F	HT (1)/N	N/N	N/N	N/N	N/N
	133M/F	N/HT (1)	N/N	N/N	N/N	N/N
	134M/F	N/N	N/N	N/N	N/N	N/N
	135M/F	N/HT (1)	N/N	N/N	N/N	N/N
	136M/F	N/N	N/N	N/N	N/N	N/N
2	137M/F	N/N	ИЛ	N/N	N/N	N/N
	138M/F ^d	-/-	N/N	N/N	N/N	N/N
	139M/F	N/IC (1)	N/N	N/N	N/N	N/N
	140M/F	N/N	N/N	N/N	N/N	N/N
	141M/F	N/N	N/N	N/N	N/N	N/N
	142M/F	N/N	N/N	N/N	N/N	N/N
	143M/F	N/N	N/N	N/N	N/N	N/N
	144M/F	N/N	N/N	N/N	N/N	N/N
	145M/F	N/N	N/N	N/N	Abrasion (1)/N	N/N
	146M/F	N/N	N/N	N/N	N/N	N/N
	147M/F	N/N	N/N	N/N	N/N	N/N
	148M/F	N/N	N/N	N/N	N/N	N/N
	149M/F	N/HT,IB,NA (1)	N/M (1)	N/N	N/N	N/N
	150M/F	N/N	N/M (1)	N/N	N/N	N/N

 $^{^{}a}$ Litters culled to 4/sex, when possible, after all data was collected on postnatal day 4 b M/F = Male pups/Female pups

HT = Hematoma

M = Missing (presumed dead/cannibalized)

D = Dead

1B = Intermittent breathing

NA = No activity

IC = Indented cranial area

 $^{^{\}circ}$ The number in parenthesis is the number of pups displaying the clinical sign $^{\circ}$ Observations for litter No. 138 inadvertently not recorded on postnatal day 0 N = Normal

F, Generation: Individual Litter Preweaning Clincal Signs Data

Dose Level (mg base/kg/day)	Litter No.	Postnatal Day 0	Postnatal Day 4ª	Postnatal Day 7	Postnatal Day 14	Postnatal Day 2
	151M/F ^b	N/N	N/N	N/N	N/N	N/N
	168M/F	N/N	N/N	N/N	N/N	N/N
	168M/F	N/N	N/N	N/N	N/N	N/N
	162M/F	N/N	N/N	N/N	N/N	N/N
	168M/F	N//HT (1) ^c	N/N	N/N	N/N	N/N
	167M/F	HT (1)/HT (1)	N/N	N/N	N/N	N/N
	168M/F	N/N	N/N	N/N	N/N	N/N
	168M/F	HT (2)/N	M (1)/N	Scab (1)/N	N/N	N/N
	159 ^d	-		-	-	
	167M/F	N/N	N/N	N/N	N/N	N/N
	167M/F	N/N	N/N	N/N	N/N	N/N
6	162M/F	N/N	N/N	N/N	N/N	N/N
	168M/F	N/HT (1)	N/N	N/N	N/N	N/N
	164M/F	N/N	N/N	N/N	N/N	N/N
	168M/F	HT (1)/HT (1)	N/N	N/N	N/N	N/N
	166M/F	N/HT (1)	N/N ·	N/N	N/N	N/N
	167M/F	N/HT (1)	N/N	N/N	N/N	N/N
	168M/F	HT (1)/N	N/N	N/N	N/N	N/N
	169M/F	N/N	N/N	N/N	N/N	N/N
	170M/F	N/HT (1)	N/M(1)	N/N	N/N	N/N
	170M/F	N/N	N/N	N/N	N/N	N/N
	172M/F	N/N	N/N	N/N	N/N	N/N
	173M/F	N/N	M (1)/N	N/N	N/N	N/N
	174M/F	N/N	N/N	N/N	N/N	N/N
	175M/F	N/N	N/N	N/N	N/N	N/N

^{*}Litters culled to 4/sex, when possible, after all data was collected on postnatal day 4

N = Normal

HT = Hematoma

M = Missing (presumed dead/cannibalized)

D = Dead

bM/F = Male pups/Female pups

^eThe number in parenthesis is the number of pups displaying the clinical sign

 $^{^{}d}$ There was no litter No. 159 since F_{o} dam No. 159 was not pregnant

F, Generation: Individual Litter Preweaning Clincal Signs Data

Dose Level (mg base/kg/day)	Litter No.	Postnatal Day 0	Postnatal Day 4ª	Postnatal Day 7	Postnatal Day 14	Postnatal Day 21
	176M/F ^b	N/N	N/D (1) ^c	N/N	N/N	N/N
	177M/F	N/N	N/N	Scab (1)/N	N/N	N/N
	178M/F	NN	N/N	N/N	N/N	N/N
	179M/F	NN	NN	N/N	N/N	N/N
	180M/F	HT (1)/N	N/N	N/N	N/N	N/N
	181M/F	N/HT (1)	N/N	N/N	N/N	N/N
	182M/F	NΝ	N/N	N/N	N/N	N/N
	183M/F	NN	N/N	N/N	N/N	N/N
	184M/F	N/N	Scab (1)/N	N/N	N/N	N/N
	185M/F	NN	N/N	N/N	N/N	N/N
	186M/F	N/N	N/N	N/N	N/N	N/N
18	187M/F	N/N	N/N	N/N	N/N	N/N
	188M/F	N/N	N/N	N/N	N/N	N/N
	189M/F	N/N	N/N	N/N	N/N	N/N
	190M/F	HT (1)/N	N/M (1)	N/N	N/N	N/N
	191M/F	N/N	N/N	N/N	N/N	N/N
	192M/F	HT (1)/HT (1)	M (1)/N	N/N	N/N	N/N
	193M/F	HT (1)/N	M (1)/N	N/N	N/N	N/N
	194M/F	N/N	M (1)/N	N/N	N/N	N/N
	195M/F	N/N	N/N	N/N	N/N	N/N
	196M/F	N/N	N/N	N/N	N/N	N/N
	197M/F	N/HT (1)	N/N	N/N	N/N	N/N
	198M/F	N/N	N/N	N/N	N/N	N/N
	199M/F	N/N	N/N	N/N	N/N	N/N
	200M/F	N/N	N/N	N/N	N/N	N/N

 $^{^{}a}$ Litters culled to 4/sex, when possible, after all data was collected on postnatal day 4 b M/F = Male pups/Female pups

^eThe number in parenthesis is the number of pups displaying the clinical sign

N = Normal

HT = Hematoma

M = Missing (presumed dead/cannibalized)

D = Dead



				INDIVI	DUAL	CLINIC	CAL S	SIGNS	(Postweaning	Perio	i)	
STU PNI	UDY: 20 D 28-Pi	00L ND 126		GROUP: DOSE:	1-M 0 (mg	base/kg/da	зу)	SEX:	MALE			
ANIMAI	L # OF	BSERVATIO	NS			5	SEVE	RITY	LOC	TIME	OCCURR	RED
103		ormal cheduled	Sacri	fice						PND PND	28-PND 71	70
10:	No No No No	ormal ormal ormal ormal ormal ormal	Sacri	fice						PND PND	28-PND 77-PND 98-PND 112 119 126	91
102	21 No	ormal cheduled	Sacri	fice						PND PND	28-PND 71	70
102	No No No No	ormal ormal ormal ormal ormal ormal ormal	Sacri	fice						PND PND PND PND PND PND	77-PND 98-PND 112	91
103	32 No	ormal cheduled	Sacri	fice						PND PND	28-PND 71	70
103	No No No No	ormal ormal ormal ormal ormal ormal ormal	Sacri	fice		,				PND PND PND PND PND PND	77-PND 98-PND 112 119	91
104		ormal cheduled	Sacri	fice						PND PND	28-PND 71	70
104	No No No	ormal ormal ormal ormal ormal cheduled	Sacri	.fice						PND	28-PND 77-PND 98-PND 112 119 126	91



· · · · · · · · · · · · · · · · · · ·		INDIVII	DUAL	CLINICAL	SIGNS	(Postweaning	Period)	
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	1-M 0 (mg	base/kg/day)	SEX:	MALE			
ANIMAL #	OBSERVATIONS			SEVI	ERITY	LOC	TIME	OCCUR	ED
1052	Normal Scheduled Sacr:	ifice					PND PND	28-PND 71	70
1054	Normal Normal Normal Normal Normal Scheduled Sacri	ifice					PND	119	91
1065	Normal Scheduled Sacri	ifice					PND PND	28-PND 71	70
1066	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND	119	91
1071	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
1072	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND	119	91
1083	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63
1084	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND	112 119	63 91 105



•			II	MDIVII	UAL	CLINI	CAL	SIGNS	(Postweaning	Period)	
	STUDY: PND 28-	200L PND 126	GI D(ROUP: DSE:	1-M 0 (mg	base/kg	/day)	SEX:	MALE			
P	NIMAL #	OBSERVATIO	NS				SEVE	RITY	LOC	TIME	OCCURR	ED
-	1091	Normal Scheduled	Sacrif:	ice						PND PND	28-PND 71	63
i	1097	Normal Normal Normal Normal Scheduled	Sacrif:	ice						PND	119	91
	1102	Normal Scheduled	Sacrif:	ice						PND PND	28-PND 71	63
	1104	Normal Normal Normal Normal Normal Scheduled	Sacrif	ice						PND PND PND	28-PND 77-PND 98-PND 112 119 125	91
	1112	Normal Scheduled	Sacrif	ice						PND PND	28-PND 71	63
•	1113	Normal Normal Normal Normal Normal Scheduled	Sacrif	ice						PND PND	28-PND 77-PND 98-PND 112 119 125	91
	1125	Normal Scheduled	Sacrif	ice						PND PND	28-PND 71	63
1	1127	Normal Normal Normal Normal Normal Scheduled	Sacrif	ice						PND PND PND PND	28-PND 77-PND 98-PND 112 119 125	91

ORAL	PREN	ATAL	AND F	POSTNATAL	DEVE	LOPMENT			Sec. 1 mg		
ST	JDY O	F WR	238605	SUCCINAT	re in	RATS	}	44		11	

	INDIVID	UAL CLINICAL	SIGNS (Postweaning	Period)	
STUDY: 200L PND 28-PND 126	GROUP: DOSE:	1-M - 0 (mg base/kg/day)	SEX: MALE		
ANIMAL # OBSERVA		SEVE	RITY LOC	TIME OCCUR	RED
1135 Normal				PND 28-PND PND 71	
1136 Normal Normal Normal Normal Normal Schedul	ed Sacrifice			PND 28-PND PND 77-PND PND 98-PND PND 112 PND 119 PND 125	91
1146 Normal Schedul	ed Sacrifice			PND 28-PND PND 71	70
1148 Normal Normal Normal Schedul	led Sacrifice			PND 28-PND PND 77-PND PND 98-PND PND 113	91
1152 Normal Schedul	led Sacrifice			PND 28-PND PND 71	70
1153 Normal Normal Normal Schedul	led Sacrifice			PND 28-PND PND 77-PND PND 98-PND PND 113	70 91 105
1161 Normal Schedul	led Sacrifice			PND 28-PND PND 71	70
1162 Normal Normal Normal Schedul	led Sacrifice			PND 28-PND PND 77-PND PND 98-PND PND 112	70 91 105
1173 Normal Schedul	led Sacrifice			PND 28-PND PND 71	70
1174 Normal Normal Normal Schedul	led Sacrifice			PND 28-PND PND 77-PND PND 98-PND PND 112	91



1		INDIVI	DUAL	CLINI	CAL	SIGNS	(Postweaning	Period)		
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	1-M 0 (mg	base/kg/	(day)	SEX:	MALE			
ANIMAL #	OBSERVATIONS	•••••			SEVE	ERITY	LOC	TIME	OCCUR	RED
1185	Normal Scheduled Sacri	ifice						PND PND	28-PND 71	70
1189	Normal Normal Normal Scheduled Sacri	ifice						PND	28-PND 77-PND 98-PND 112	91
1192	Normal Scheduled Sacri	ifice						PND PND	28-PND 71	70
1193	Normal Normal Normal Scheduled Sacr	ifice						PND	28-PND 77-PND 98-PND 112	91
1202	Normal Scheduled Sacr	ifice						PND PND	28-PND 71	70
1203	Normal Normal Normal Scheduled Sacr	ifice						PND	28-PND 77-PND 98-PND 112	91
1214	Normal Normal Scheduled Sacr	ifice						PND PND PND	28-PND 63-PND 71	49 70
1215	Normal Normal Normal Normal Scheduled Sacri	ifice						PND PND	28-PND 63-PND 77-PND 98-PND 111	91
1223	Normal Scheduled Sacr	ifice						PND PND	28-PND 71	70
1226	Normal Normal Normal Scheduled Sacr	ifice						PND PND PND PND	28-PND 77-PND 98-PND 112	91

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			INDIVII	DUAL	CLINICAL	SIGNS	(Postweaning	Period)		
	STUDY: PND 28-	200L PND 126	GROUP: DOSE:	1-M 0 (mg	base/kg/day)	SEX:	MALE			
Z	ANIMAL #	OBSERVATIONS			SEV	ERITY	LOC	TIME	OCCUR	RED
	1233	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
	1236	Normal Normal Normal Scheduled Sacr	rifice					PND	28-PND 77-PND 98-PND 112	91
	1242	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
	1248	Normal Normal Normal Scheduled Sacr	ifice					PND	28-PND 77-PND 98-PND 112	91
	1251	Normal Normal Scheduled Sacr	ifice					PND PND PND	28-PND 63-PND 71	49 70
	12515	Normal Normal Normal Normal Scheduled Sacr	rifice					PND	28-PND 63-PND 77-PND 98-PND 111	70

										•
•			INDIVID	UAL CL	INICAL	SIGNS	(Postweaning	Period)	
-	STUDY: PND 28	200L -PND 126	GROUP: DOSE:	1-F 0 (mg bas	se/kg/day)	SEX:	FEMALE			
	ANIMAL #	OBSERVATIONS			SEV	ERITY	LOC	TIME	OCCURE	RED
_	10112	Normal Scheduled Sacri							28-PND	
	10113	Normal Normal Normal Normal Normal Scheduled Sacri	ifice					PND	112 119	70 91 105
	10214	Normal Scheduled Sacri	ifice					PND PND	28-PND 71	70
	10217	Normal Normal Normal Normal Scheduled Sacri	ifice					PND PND PND PND PND PND	77-PND 98-PND 112 119	70 91 105
	10315	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
	10318	Normal Normal Normal Normal Normal Scheduled Sacri	ifice					PND PND PND	112 119	70 91 105
	10412	Dehydrated Normal Normal Scheduled Sacri	ifice					PND PND PND PND	56 28-PND 63-PND 71	49 70
	10413	Normal Normal						PND PND	28-PND 77-PND	°70 91

	ST			5 SUCCINA		ATS	۔۔ نہ		<u> </u>
		INDI	VIDUAL	CLINICAL	SIGNS	(Postweaning	Perio	d)	
STUDY: PND 28	200L -PND 126	GROU DOSE	P: 1-F : 0 (mg	base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATION	S		SEV	ERITY	LOC	TIME	OCCURF	ED
10413 (contd.)							PND PND	98-PND 112 119	
10511	Normal Scheduled S	acrifice					PND PND	28-PND 71	70
10513	Normal Normal Scheduled S	acrifice					PND PND PND	28-PND 77-PND 97	70 91
10614	Normal Scheduled S	acrifice					PND PND	28-PND 71	70
10616	Normal Normal Normal Normal Scheduled S	acrifice					PND	119	91
10712	Normal Scheduled S	acrifice					PND PND	28-PND 71	70
10713	Normal Normal Normal Normal Scheduled S	acrifice					PND PND PND PND	28-PND 77-PND 98-PND 112 119 126	91
10813	Normal Scheduled S	acrifice					PND PND	28-PND 71	63
10815	Normal Normal Normal Normal Normal Scheduled S	acrifice					PND PND PND	28-PND 77-PND 98-PND 112 119 125	63 91 105

· · · · · · · · · · · · · · · · · · ·		INDIVI	DUAL	CLINICAL	SIGNS	(Postweaning	Period)	
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	1-F 0 (mg	base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS			SEVI	ERITY	LOC	TIME	OCCUR	RED
10911	Normal Normal Normal Normal Normal Scheduled Sacr						PND PND PND PND PND PND	119	63 91 105
11012	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63
11015	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND	28-PND 77-PND 98-PND 112 119 125	91
11111	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63
11117	Normal Normal Normal Normal Scheduled Sacr	ifice					PND	28-PND 77-PND 98-PND 112 119 125	91
11212	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63
11213	Normal Normal Normal Normal Scheduled Sacr	ifice					PND	28-PND 77-PND 98-PND 112 119 125	63 91 105
11315	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63



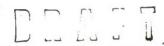
		INDIVIDU	AL CLINICA	L SIGNS	(Postweaning	Period		
STUDY: PND 28	200L -PND 126							
ANIMAL #	OBSERVATIONS		SE	VERITY	LOC	TIME	OCCUR	RED
11316	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	119	91
11412	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
11414	Normal Normal Normal Scheduled Sacr	ifice				PND PND	28-PND 77-PND 98-PND 113	91
11511	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
11519	Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 113	91
11611	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
11612	Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 112	91
11711	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
11712	Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 112	70 91 105

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			INDIVII	OUAL CLINI	CAL SIG	NS (Postw	eaning Period	i)	
	STUDY: PND 28	200L	GROUP:	1-F 0 (mg base/kg/c	S	EX: FEN	IALE		
	. ANIMAT #	OBSERVATIONS		. :	SEVERIT	Y I	LOC TIM	E OCCURI	RED
	11812	Normal Scheduled Sacri	fice				PND PND	28-PND 71	70
	11814	Normal Normal Normal Scheduled Sacri	fice		*		PND PND PND PND	77-PND 98-PND	70 91 105
-	11911	Normal Scheduled Sacri	fice				PND		70
	11915	Normal Normal Scheduled Sacri	lfice				PND PND PND		
	12012	Normal Scheduled Sacri	fice				PND PND		70
~	12013	Normal Normal Normal Scheduled Sacri	lfice				PND	28-PND 77-PND 98-PND 112	70 91 105
	12113	Normal Normal Scheduled Sacri	ifice				PND PND PND	63-PND	49 70
	12114	Normal Normal Normal Normal Scheduled Sacri	lfice				PND PND PND PND PND	63-PND 77-PND 98-PND	49 70 91 105
	12211	Normal Scheduled Sacri	ifice				PND		70
	12213	Normal Normal Normal Scheduled Sacri	lfice				PND PND PND PND	77-PND 98-PND	70 91 105

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)			INDIVII	DUAL	CLINICA	L SIGNS	(Postweaning	Period)	
STUDY: PND 28-	200L -PND 126		GROUP: DOSE:	1-F 0 (mg	base/kg/day)	SEX	: FEMALE		1	
ANIMAL #	OBSERVATIO	NS			SE	VERITY	LOC	TIME	e occuri	RED
12312	Normal Scheduled	Sacri	fice					PND PND	28-PND 71	70
12313	Normal Normal Normal Scheduled	Sacri	fice					PND	28-PND 77-PND 98-PND 112	91
12411	Normal Scheduled	Sacri	fice						28-PND 71	70
12413	Normal Normal Scheduled	Sacri	fice					PND PND PND	28-PND 77-PND 97	70 91
12511	Normal Normal Scheduled	Sacri	fice					PND PND PND	28-PND 63-PND 71	49 70
12519	Normal Normal Normal Normal Scheduled	Sacri	fice					PND PND PND	63-PND 77-PND	70 91

		INDIVII	DUAL CLI	NICAL S	SIGNS	(Postweaning	Period)	
STUDY: PND 28-	200L -PND 126	GROUP .	2-M		SEX:	MALE			
ANIMAL #	OBSERVATIONS			SEVER	YTIS	LOC	TIME	OCCUR	RED
1264	Normal Scheduled Sacri	ifice					PND PND	28-PND 71	70
1267	Normal Normal Normal Normal Scheduled Sacra	ifice					PND	119	91
1275	Normal Scheduled Sacri	ifice						28-PND 71	70
1277	Normal Normal Normal Normal Scheduled Sacri	ifice					PND	119	91
1283	Normal Scheduled Sacri	ifice						28-PND 71	70
1286	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND		91
1295	Normal Scheduled Sacri	ifice					PND PND	28-PND 71	70
1296	Normal Normal Normal Normal Normal Scheduled Sacra	ifice					PND PND PND	28-PND 77-PND 98-PND 112 119 126	91



•			INDIVI	DUAL	CLINI	CAL	SIGNS	(Postweaning	Period)		
	STUDY: PND 28	200L -PND 126	GROUP: DOSE:	2-M 2 (mg	base/kg/d	day)	SEX:				
1	ANIMAL #	OBSERVATIONS				SEVE	RITY	LOC	TIME	OCCUR	ED
ê	1307	Normal Scheduled Sad	crifice						PND PND	28-PND 71	70
	1309	Normal Normal Normal Normal Normal Scheduled Sad	crifice						PND PND PND PND PND PND	119	91
	1311	Normal Scheduled Sac	crifice						PND PND	28-PND 71	70
1	1312	Normal Normal Normal Normal Normal Scheduled Sad	crifice							77-PND 98-PND 112 119	91
	1322	Normal Scheduled Sad	crifice						PND PND	28-PND 71	63
	1323	Normal Normal Normal Normal Normal Scheduled Sad	crifice						PND PND PND PND PND PND	28-PND 77-PND 98-PND 112 119 125	91
	1331	Normal Scheduled Sad	crifice						PND PND	28-PND 71	63
	1333	Normal Normal Normal Normal Normal Scheduled Sad	crifice						PND PND PND PND PND PND	77-PND 98-PND 112	63 91 105

	INDIVIDU	JAL CLINICAL	SIGNS (Postwea	ning Period)		
					 	_ ^
9.	STUDY OF WR238	605 SUCCINAT	E IN RATS	1 1	 . 1	
0.	RAL PRENATAL AN	ID POSTNATAL.	DEVELOPMENT			

STUDY: PND 28-	200L GF -PND 126 DC	ROUP: 2	2-M 2 (mg base/kg/day)	SEX:	MALE			
ANIMAL #	OBSERVATIONS		SEVE	ERITY	LOC	TIME	OCCURR	ED
1341	Normal Scheduled Sacrifi	ice				PND PND	28-PND 71	63
1343	Normal Normal Normal Normal Scheduled Sacrifi	ice				PND PND PND PND PND PND	119	63 91 105
1353	Normal Scheduled Sacrifi	ice				PND PND	28-PND 71	63
1354	Normal Normal Normal Normal Scheduled Sacrifi	ice				PND PND PND PND PND PND	119	63 91 105
1361	Normal Scheduled Sacrifi	ice				PND PND	28-PND 71	63
1365	Normal Normal Normal Normal Normal Scheduled Sacrifi	ice				PND PND PND PND PND PND	119	63 91 105
1375	Normal Scheduled Sacrifi	ice				PND PND	28-PND 71	63
1379	Normal Normal Normal Normal Normal Scheduled Sacrifi	ice				PND	119	91



		INDIVI	DUAL	CLINICAI	SIGNS	(Postweaning	Period)		
STUDY: PND 28	: 200L 3-PND 126	GROUP: DOSE:	2-M 2(mg b	ase/kg/day)	SEX:	MALE			
ANIMAL #	OBSERVATIONS			SEV	/ERITY	LOC	TIME	OCCUR	RED
1382	Normal Scheduled Sacr	ifice			,		PND PND	28-PND 71	63
1383	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND	119	91
1392	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
1394	Normal Normal Normal Scheduled Sacr	rifice					PND	28-PND 77-PND 98-PND 112	91
1401	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
1404	Normal Normal Normal Scheduled Sacr	rifice					PND PND PND PND	28-PND 77-PND 98-PND 113	70 91 105
1414	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
1415	Normal Normal Normal Scheduled Sacr	rifice					PND	28-PND 77-PND 98-PND 112	70 91 105
1421	Normal Scheduled Sacr	ifice					FND FND	28-PND 71	70
1428	Normal Normal Normal Scheduled Sacr	rifice					PND	28-PND 77-PND 98-PND 113	70 91 105

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			INDIVIDUAL	CLINICAL	SIGNS	(Postweaning	Period)		•
	STUDY: PND 28-	200L -PND 126	GROUP: 2-M DOSE: 2 (mg	base/kg/day)	SEX:	MALE			
ANI	MAL #	OBSERVATIONS		SEVE	ERITY	LOC	TIME	OCCUR	ED
	1432	Normal Scheduled Sacri	fice			1		28-PND 71	70
	1434	Dehydrated Normal Normal Normal Normal Scheduled Sacri	ifice				PND	28-PND 70 77-PND 98-PND	91
	1443	Normal Scheduled Sacri	lfice				PND PND	28-PND 71	70
	1444	Normal Normal Normal Scheduled Sacri	lfice				PND PND	28-PND 77-PND 98-PND 112	91
	1452	Normal Scheduled Sacri	ifice				PND PND	28-PND 71	70
	1454	Normal Normal Normal Scheduled Sacra	ifice				PND	28-PND 77-PND 98-PND 112	91
	1461	Normal Scheduled Sacri	ifice				PND PND	28-PND 71	70
	1463	Normal Normal Normal Scheduled Sacri	ifice				PND	28-PND 77-PND 98-PND 112	91
	1474	Dark Material A Dark Material A Normal Normal Scheduled Sacri	_				PND	28-PND 63	

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				CLINICAL			Perio	i)	
 STUDY: PND 28	200L -PND 126	GROUP: DOSE:	2-M 2 (mg b	pase/kg/day)	SEX:	MALE			
 ANIMAL #	OBSERVATIONS			SEV	ERITY	LOC	TIME	OCCUR	RED
1475	Normal Normal Normal Scheduled Sacri						PND	28-PND 77-PND 98-PND 112	91
1483	Normal Normal Scheduled Sacri	fice					PND PND PND	28-PND 63-PND 71	49 70
1484	Normal Normal Normal Normal Scheduled Sacri	fice					PND PND	28-PND 63-PND 77-PND 98-PND	70 91
1491	Normal Scheduled Sacri	fice					PND PND	28-PND 71	70
1493	Normal Normal Normal Scheduled Sacri	fice					PND	28-PND 77-PND 98-PND 112	91
1501	Normal Normal Scheduled Sacra	lfice					PND PND PND	28-PND 63-PND 71	49
1503	Normal Normal Normal Normal Scheduled Sacri	fice					PND	28-PND 63-PND 77-PND 98-PND 111	70 91

		INDIVII	DUAL	CLINICAL	SIGNS	Postweaning	Period)		
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	2-F 2 (mg	base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS	5		SEVE	ERITY	LOC	TIME	OCCUR	RED
12611	Normal Scheduled Sa	acrifice					PND PND	28-PND 71	70
12612	Normal Normal Normal Normal Normal Scheduled Sa	acrifice					PND	119	91
12715	Normal Scheduled Sa	acrifice					PND PND	28-PND 71	70
12716	Normal Normal Normal Normal Normal Scheduled Sa	acrifice					PND		91
12813	Normal Scheduled Sa	acrifice					PND PND	28-PND 71	70
12815	Normal Normal Normal Normal Normal Scheduled Sa	acrifice					PND	119	91
12911	Normal Scheduled Sa	acrifice					PND	28-PND 71	70
12912	Normal Normal Scheduled Sa	acrifice							70 91

			INDIVII	DUAL	CLINICAL	SIGNS	(Postweaning	Period)	
	STUDY: PND 28	200L -PND 126								
	ANIMAL #	OBSERVATIONS			SEVI	ERITY	LOC	TIME	OCCUR	RED
	13011	Normal Scheduled Sacr							28-PND	
,	13013	Dehydrated Normal Normal Normal Normal Normal Scheduled Sacri	ifice					PND PND PND PND PND PND PND	28-PND 77-PND 98-PND 112 119	63 91 105
	13113	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
	13114	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND PND PND PND	119	70 91 105
	13212	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63
	13213	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND	119	91
	13315	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63
	13317	Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND PND PND PND	119	63 91 105

		INDIVI	DUAL	CLINICAL	SIGNS	(Postweaning	Period)	-,
STUDY: PND 28-	200L PND 126	GROUP: DOSE:	2-F 2 (mg	base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS			SEVE	ERITY	LOC	TIME	OCCUR	≀ED
13412	Normal Scheduled Sac	rifice					PND PND	28-PND 71	63
13414	Normal Normal Normal Normal Normal Scheduled Sac	rifice					PND	119	91
13512	Normal Scheduled Sac	rifice					PND PND	28-PND 71	63
13515	Normal Normal Normal Normal Scheduled Sac	rifice					PIND	119	91
13612	Normal Scheduled Sac	rifice					PND PND	28-PND 71	63
13614	Normal Normal Normal Normal Scheduled Sac	rifice					PND	119	91
13711	Normal Scheduled Sac	rifice					PND PND	28-PND 71	63
13713	Normal Normal Normal Normal Normal Scheduled Sac	rifice					PND PND PND PND PND PND	119	63 91 105

 			INDIVII	UAL	CLINI	CAL	SIGNS	(Postweaning	Period;		
 STUDY: PND 28-	200L -PND 126		GROUP: DOSE:	2-F 2 (mg	base/kg/	day)	SEX:	FEMALE			
 ANIMAL #	OBSERVATIO	NS				SEVE	ERITY	LOC	TIME	OCCUR	RED
	Normal Scheduled									28-PND	
13815	Normal Normal Normal Normal Normal Scheduled	Sacri	fice						PND	119	91
13912	Normal Scheduled	Sacri	fice						PND PND	28-PND 71	70
13913	Normal Normal Normal Scheduled	Sacri	fice						PND	28-PND 77-PND 98-PND 112	91
14011	Normal Scheduled	Sacri	fice						PND PND	28-PND 71	70
14014	Normal Normal Normal Scheduled	Sacri	fice						PND	28-PND 77-PND 98-PND 113	91
14111	Normal Scheduled	Sacri	fice						PND PND	28-PND 71	70
14112	Normal Normal Normal Scheduled	Sacri	fice						PND	28-PND 77-PND 98-PND 112	91
14212	Normal Scheduled	Sacri	fice						PND PND	28-PND 71	70
14213	Normal Normal Normal Scheduled	Sacri	fice						PND	28-PND 77-PND 98-PND 113	91

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			INDIVIDUA	L CLINICAL	SIGNS (Postweaning	Period)		
	STUDY: PND 28	200L	GROUP: 2-1 DOSE: 2 (7	SEX:	FEMALE			
6	ANIMAL #	OBSERVATIONS		SEVE	RITY	LOC	TIME	OCCURR	ED
	14314	Normal Scheduled Sacri	lfice					28-PND 71	70
	14315	Normal Normal Normal Scheduled Sacri	ifice				PND PND	28-PND 77-PND 98-PND 112	91
	14412	Normal Normal Normal Scheduled Sacri	ifice				PND	28-PND 77-PND 98-PND 112	91
-	14416	Normal Scheduled Sacri	ifice					28-PND 71	70
	14511	Normal Scheduled Sacri	ifice				PND PND	28-PND 71	70
	14514	Normal Normal Normal Scheduled Sacr:	ifice				PND	77-PND	70 91 105
	14613	Normal Scheduled Sacr:	ifice					28-PND 71	70
	14615	Normal Normal Normal Scheduled Sacr:	ifice				PND	77-PND	70 91 105
	14712	Normal Scheduled Sacri	ifice				PND PND	28-PND 71	70
•	14714	Normal Normal Normal Scheduled Sacri	ifice				PND PND PND PND		70 91 105

		TATOTICTORIA	L CLINICAL	CTCMC	/Dostumening			
		INDIVIDUA				Period)		
STUDY: PND 28-	200L -PND 126	GROUP: 2-1 DOSE: 2 (F : mg base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS		SEVE	ERITY	LOC	TIME	OCCUR	RED
14811	Normal Normal Scheduled Sacr	ifice				PND	28-PND 63-PND 71	49 70
14812	Normal Normal Normal Normal Scheduled Sacr	ifice				PND	98-PND	70 91
14913	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
14916	Normal Normal Normal Scheduled Sacr	ifice				PND		70 91 105
15011	Normal Normal Scheduled Sacr	ifice				PND	28-PND 63-PND 71	49 70
15013	Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND	28-PND 63-PND 77-PND 98-PND	49 70 91 105



1				CLINICAL			Period	i)	
STUDY: PND 28-	200L -PND 126	GROUP: DOSE:	3-M 6 (mg	base/kg/day)	SEX:	MALE			
ANIMAL #	OBSERVATIONS			SEV	VERITY	LOC	TIME	OCCUR	RED
1511	Normal Scheduled Sacri	fice					PND PND	28-PND 71	70
1515	Normal Normal Normal Normal Scheduled Sacri	fice					PND	119	91
1523	Normal Scheduled Sacri	fice					PND PND	28-PND 71	70
1524	Normal Normal Normal Normal Scheduled Sacri	fice					PIND	119	91
1532	Normal Scheduled Sacri	fice					PND PND	28-PND 71	70 ′
1533	Normal Normal Normal Normal Scheduled Sacri	fice					PND PND PND PND PND PND	119	70 91 105
1542	Normal Scheduled Sacri	fice					PND PND	28-PND 71	70
1544	Normal Normal Normal Normal Scheduled Sacri	fice					PND PND PND	28-PND 77-PND 98-PND 112 119	91

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				CLINICAL			Period)	
STUDY: PND 28	200L -PND 126	GROUP: C	3-M 6 (mg	base/kg/day)	SEX:	MALE			
ANIMAL #	OBSERVATIONS			SEVI	ERITY	LOC	TIME	OCCUR	RED
1554	Normal Scheduled Sacr							28-PND	
1555	Normal Normal Normal Normal Scheduled Sacr	ifice					PND	119	91
1561	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
1566	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND PND PND PND	119	70 91 105
1571	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63
1574	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND PND PND PND	119	63 91 105
1584	Normal Scheduled Sacr	ifice					PND	28-PND 71	70
1585	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND	119	91

There was no F_1 litter No. 159 since F_0 dam No. 159 was not pregnant.

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		INDIVIDUAL C	LINICAL SIGNS	(Postweaning	Period)	
STUDY: PND 28	200L -PND 126	GROUP: 3-M DOSE: 6 (mg ba		MALE		
ANIMAL #	OBSERVATIONS		SEVERITY	LOC	TIME O	CCURRED
1603	Normal Scheduled Sacri	ifice			PND 28- PND 71	-PND 63
1605	Normal Normal Normal Normal Normal Scheduled Sacri	ifice			PND 28- PND 77- PND 98- PND 112 PND 113 PND 125	PND 91 PND 105
1611	Normal Scheduled Sacri	ifice			PND 28- PND 71	-PND 63
1612	Normal Normal Normal Normal Normal Scheduled Sacri	ifice			FND 28 FND 77 FND 98 FND 112 FND 112 FND 125	-PND 91 -PND 105
1622	Normal Scheduled Sacri	ifice			PND 28 PND 71	-PND 63
1625	Normal Normal Normal Normal Scheduled Sacri	ifice			PND 28- PND 77- PND 98- PND 112 PND 112 PND 125	-PND 91 -PND 105
1634	Normal Scheduled Sacri	ifice			PND 28	-PND 70
1636	Normal Normal Normal Scheduled Sacr:	ifice			PND 28 PND 77 PND 98 PND 112	-PND 70 -PND 91 -PND 105



•		INDIVII		CLINICAL	SIGNS	(Postweaning	Period)	
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	3-M 6 (mg	base/kg/day)	SEX:	MALE			
ANIMAL #	OBSERVATIONS			SEV	ERITY	LOC	TIME	OCCUR	RED
1644	Normal Scheduled Sacra	ifice					PND PND	28-PND 71	70
1646	Normal Normal Normal Scheduled Sacri	ifice					PND	28-PND 77-PND 98-PND 113	91
1652	Normal Scheduled Sacra	ifice						28-PND 71	70
1658	Normal Normal Normal Scheduled Sacri	ifice					PND	28-PND 77-PND 98-PND 113	91
1661	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
1664	Normal Normal Normal Scheduled Sacri	ifice					PND	28-PND 77-PND 98-PND 113	91
1672	Normal Scheduled Sacri	ifice					PND PND	28-PND 71	70
1673	Normal Normal Normal Scheduled Sacri	ifice					PND PND	28-PND 77-PND 98-PND 113	91
1681	Normal Scheduled Sacri	ifice					PND PND	28-PND 71	70
1685	Normal Normal Normal Scheduled Sacri	ifice					PND		70 91 105



				CLINICA				Period:)	
STUDY: PND 28-	200L PND 126	GROUP: DOSE:	3-M 6 (mg	base/kg/day)	S	EX: MA	LE			
ANIMAL #	OBSERVATIONS			SE	VERIT	Y	LOC	TIME	OCCURI	RED
1691	Normal Scheduled Sacri	fice						PND PND	28-PND 71	70
1692	Normal Normal Normal Scheduled Sacri	fice						PND	28-PND 77-PND 98-PND 113	91
1704	Normal Normal Scheduled Sacri	.fice						PND PND PND	28-PND 63-PND 71	49 70
1706	Normal Normal Normal Scheduled Sacri	.fice						PND PND PND	28-PND 63-PND 77-PND 98-PND 111	70 91
1714	Normal Scheduled Sacri	fice						PND	28-PND 71	70
1715	Normal Normal Normal Scheduled Sacri	fice						PND PND PND PND	28-PND 77-PND 98-PND 112	70 91 105
1723	Normal Scheduled Sacri	.fice						PND PND	28-PND 71	70
1727	Normal Normal Normal Scheduled Sacri	.fice						PND PND	28-PND 77-PND 98-PND 112	91
1733	Normal Normal Scheduled Sacri	fice						PND PND PND	28-PND 63-PND 71	49

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	INDIVIDU	AL CLINICAL	SIGN: (Postweaning	Period)
STUDY PND 2	: 200L GROUP: 3 8-PND 126 DOSE: 6	-M (mg base/kg/day)	SEX: MALE	
ANIMAL #	OBSERVATIONS	SEVE	ERITY LOC	TIME OCCURRED
1734	Normal Normal Normal Normal Scheduled Sacrifice			PND 28-PND 49 PND 63-PND 70 PND 77-PND 91 PND 98-PND 105 PND 111
1741	Normal Normal Scheduled Sacrifice			PND 28-PND 49 PND 63-PND 70 PND 71
1743	Normal Normal Normal Normal Scheduled Sacrifice			PND 28-PND 49 PND 63-PND 70 PND 77-PND 91 PND 98-PND 105 PND 111
1754	Normal Scheduled Sacrifice			PND 28-PND 70 PND 71
1755	Normal Normal Normal Scheduled Sacrifice			PND 28-PND 70 PND 77-PND 91 PND 98-PND 105 PND 112

ORAL PRENATAL AND POSTNATAL DEVELOPMENT

*	STUDY			SUCCINA	re in R	LATS		Luu	Ц
		INDIVII	DUAL	CLINICAL	SIGNS	(Postweaning	Period)	
	200L -PND 126	GROUP: DOSE:	3-F 6(mg	base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS			SEVI	ERITY	LOC	TIME	OCCUR	RED
15112	Normal Scheduled Sacr:							28-PND	
15115	Normal Normal Normal Normal Normal Scheduled Sacri	ifice					PND PND PND PND PND PND	77-PND 98-PND 112 119	91
15211	Normal Scheduled Sacri	ifice						28-PND 71	70
15213	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PNID PNID PNID PNID PNID PNID	77-PND 98-PND 112 119	91
15313	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
15314	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND PND PND PND	77-PND 98-PND 112 119	91
15412	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	70
15416	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND PND PND PND	77-PND 98-PND 112 119	91

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				CLINICAL	SIGNS	Postweaning	Period		
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	3-F 6 (mg	base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS			SEV	ERITY	LOC	TIME	E OCCURI	RED
15513	Normal Scheduled Sacr	ifice						28-PND	
15518	Dehydrated Normal Normal Normal Normal Normal Normal Scheduled Sacri	ifice					PND	28-PND 63-PND 77-PND 98-PND 112 119	49 70 91 105
15611	Normal Scheduled Sacr	ifice					PIND PIND	28-PND 71	70
15617	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND PND	28-PND 77-PND 98-PND 112 119 126	70 91 105
15712	Normal Scheduled Sacr	ifice					PND PND	28-PND 71	63
15714	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND	77-PND 98-PND 112 119	91
15814	Normal Scheduled Sacr	ifice					PND PND		70
15816	Normal Normal Normal Normal Normal Scheduled Sacr	ifice					PND PND PND	28-PND 77-PND 98-PND 112 119	70 91 105

		INDIVID	UAL CLIN	CAL SIGN	5 (Postweaning	Period	d)	
STUDY: PND 28	200L -PND 126							
ANIMAL #	OBSERVATIONS			SEVERITY	LOC	TIME	OCCUR	RED
16011	Normal Scheduled Sacr:						28-PND	
16015	Normal Normal Normal Normal Normal Scheduled Sacri	ifice				PND	119	91
16113	Normal Scheduled Sacri	ifice				PND PND	28-PND 71	63
16114	Normal Normal Normal Normal Normal Scheduled Sacri	ifice				PND PND PND PND	28-PND 77-PND 98-PND 112 119 125	63 91 105
16211	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
16216	Normal Normal Normal Normal Normal Scheduled Sacri	ifice				PND PND PND PND	28-PND 77-PND 98-PND 112 119 125	91
16311	Normal Scheduled Sacr	ifice				PND	28-PND 71	70
16313	Normal Normal Normal Scheduled Sacri	ifice				PND	28-PND 77-PND 98-PND 112	70 91 105

							(Postweaning)	
STUDY: PND 28-	200L -PND 126	GROUP: DOSE:	3-F 6 (mg	base/kg/d	day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS				SEVE	RITY	LOC	TIME	OCCUR	RED
	Normal Scheduled Sacri							PND PND	28-PND 71	70
16413	Normal Normal Normal Scheduled Sacri	ifice						PND	28-PND 77-PND 98-PND 113	91
16513	Normal Scheduled Sacri	ifice						PND PND	28-PND 71	70
16514	Normal Normal Normal Scheduled Sacri	ifice						PND	28-PND 77-PND 98-PND 113	91
16613	Normal Scheduled Sacri	ifice						PND PND	28-PND 71	70
16614	Normal Normal Normal Scheduled Sacri	ifice						PND PND	28-PND 77-PND 98-PND 113	91
16711	Normal Scheduled Sacra	ifice						PND PND	28-PND 71	70
16714	Normal Normal Normal Scheduled Sacri	ifice						PND	28-PND 77-PND 98-PND 113	91
16813	Normal Scheduled Sacr	ifice						PND PND	28-PND 71	70
16814	Dehydrated Normal Normal Normal Normal Scheduled Sacri	ifice						PND	28-PND 63-PND	49 70 91 105

		OF WR238605			يا با يا
1			CLINICAL SIGN	NS (Postweaning Perio	
PND 28	200L -PND 126	GROUP: 3-F DOSE: 6 (mg	SI base/kg/day)		,
ANIMAL #	OBSERVATIONS	·	SEVERITY	Y LOC TIM	ME OCCURRED
16911	Normal Scheduled Sacri			PNI	0 28-PND 70 0 71
16913	Normal Normal Normal Scheduled Sacra	ifice		PNI	28-PND 70 77-PND 91 98-PND 105 113
17016	Normal Normal Scheduled Sacri	ifice		PNI PNI PNI	28-PND 49 063-PND 70 071
17018	Normal Normal Normal Normal Scheduled Sacri	ifice		PNI	0 63-PND 70 0 77-PND 91 0 98-PND 105
17111	Normal Scheduled Sacr	ifice		PNI PNI	28-PND 70 71
17115	Normal Normal Normal Scheduled Sacri	ifice		PNI	28-PND 70 27-PND 91 298-PND 105 20 112
17212	Normal Scheduled Sacr	ifice		PNI PNI	28-PND 70 71
17215	Normal Normal Normal Scheduled Sacr	ifice		PNI	0 28-PND 70 0 77-PND 91 0 98-PND 105 0 112
17311	Normal Normal Scheduled Sacri	ifice			0 28-PND 49 0 63-PND 70 0 71

		CLINICAL					 	
 	 	 	 	با	<u> </u>	44	 U.	
		SUCCINA'						

	INDIVIDUAL	CLINICAL SI	IGNS (Postweaning	Period)	
STUDY: 200L PND 28-PND 126	GROUP: 3-F DOSE: 6 (mg		SEX: FEMALE		
ANIMAL # OBSERVATIONS		SEVER	ITY LOC	TIME OCCUR	RED
17312 Normal Normal Normal Normal Scheduled Sacri	fice			PND 28-PND PND 63-PND PND 77-PND PND 98-PND PND 111	49 70 91 105
17411 Normal Normal Scheduled Sacri	fice			PND 28-PND PND 63-PND PND 71	49 70
17413 Normal Normal Normal Normal Scheduled Sacri	.fice			PND 28-PND PND 63-PND PND 77-PND PND 98-PND PND 111	49 70 91 105
17513 Normal Scheduled Sacri	fice			PND 28-PND PND 71	70
17516 Normal Normal Normal Normal Normal Scheduled Sacri	.fice			PND 28-PND PND 77 PND 91 PND 98-PND PND 112	



		INDIVI	DUAL CLINICA	L SIGNS	(Postweaning	Perio	d)	
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	4-M 18 (mg base/kg/da	SEX:	MALE			
ANIMAL #	OBSERVATIONS		SE	EVERITY	LOC	TIME	OCCUR	RED
1762	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
1763	Normal Normal Normal Normal Scheduled Sacr	ifice				PND	119	91
1773	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
1774	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	119	91
1782	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
1783	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 112 119 126	91
1792	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
1795	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	119	91

			DUAL CLINICAL			Period)	
STUDY: PND 28	200L -PND 126							
ANIMAL #	OBSERVATIONS		SEVE	ERITY	LOC	TIME	OCCUR	RED
1801	Normal Scheduled Sacr						28-PND	
1806	Dehydrated Normal Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND PND PND	28-PND 63-PND 77-PND 98-PND 112	70
1813	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
1814	Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND	77-PND 98-PND 112	91
1823	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
1824	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PIND	28-PND 77-PND 98-PND 112 119 125	91
1831	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
1835	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PIND	119	91

							- Lucien - Let	
		INDIVIDUAL						
 STUDY: PND 28	200L -PND 126	GROUP: 4-N DOSE: 18	(mg base/kg/day)	SEX:	MALE			
ANIMAL #	OBSERVATIONS		SEVI	ERITY	LOC	TIME	OCCUR	RED
	Normal Scheduled Sacr						28-PND	
1846	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	119	91
1852	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
1853	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	119	91
1861	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
1865	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND PND PND PND	119	63 91 105
1873	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
1875	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	119	91



ĺ.					I GNS (Postweaning	Period)	
	STUDY: PND 28	200L GF -PND 126 DC	OUP: 4-M OSE: 18 (mg				
١.	ANIMAL #	OBSERVATIONS		SEVER	ITY LOC	TIME OCC	URRED
	1882	Dark Material Arc Normal Normal Scheduled Sacrifi	-			PND 56 PND 28-P PND 63-P PND 71	ND 49 ND 70
	1883	Normal Normal Normal Scheduled Sacrifi	.ce			PND 28-P PND 77-P PND 98-P PND 112	ND 91
	1894	Normal Scheduled Sacrifi	ce			PND 28-P PND 71	ND 70
	1897	Normal Normal Normal Scheduled Sacrifi	.ce			PND 28-P PND 77-P PND 98-P PND 113	ND 91
	1901	Normal Scheduled Sacrifi	ce			PND 28-P PND 71	ND 70
	1904	Normal Normal Normal Scheduled Sacrifi	ce			PND 28-P PND 77-P PND 98-P PND 112	ND 91
	1912	Normal Scheduled Sacrifi	ce			PND 28-P PND 71	ND 70
	1914	Normal Normal Normal Scheduled Sacrifi	ce			PND 28-P PND 77-P PND 98-P PND 113	ND 91
	1921	Normal Scheduled Sacrifi	ce			PND 28-P PND 71	ND 70
	1924	Normal Normal Normal Scheduled Sacrifi	ce			PND 28-P PND 77-P PND 98-P PND 113	ND 91

		INDIVII	DUAL CLINICA	L SIGNS	(Postweaning	Period)		
STUDY: PND 28-	200L PND 126	GROUP: DOSE:	4-M 18 (mg base/kg/da	SEX:	MALE			
ANIMAL #	OBSERVATIONS		SE	EVERITY	LOC	TIME	OCCURR	ED
1934	Normal Scheduled Sacri	.fice				PND :	28-PND 71	70
1936	Normal Normal Normal Scheduled Sacri	fice				PND '	28-PND 77-PND 98-PND 113	91
1941	Normal Scheduled Sacri	fice				PND PND	28-PND 71	70
1942	Normal Normal Normal Scheduled Sacri	lfice				PND '	28-PND 77-PND 98-PND 112	91
1952	Normal Scheduled Sacri	fice				PND PND	28-PND 71	70
1956	Normal Normal Normal Scheduled Sacri	fice				PND '	28-PND 77-PND 98-PND 112	91
1962	Normal Scheduled Sacri	fice				PND PND	28-PND 71	70
1965	Normal Normal Normal Scheduled Sacri	lfice				PND	28-PND 77-PND 98-PND 112	97
1972	Normal Scheduled Sacri	ifice				PND PND	28-PND 71	70
1974	Normal Normal Normal Scheduled Sacri	lfice				PND	28-PND 77-PND 98-PND 112	91

ORAL PRENATAL AND POSTNATAL DEVELOPMENT

	STUD	Y OF WR23	8605 SUC	CINATE IN	RATS) L. L	ت ن	ړ ك
		INDIVID	UAL CLIN	ICAL SIGN	IS (Postweanin	ng Period)		
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	4-M = 18 (mg base/	SE (kg/day)	EX: MALE			
ANIMAL #	OBSERVATIONS		*	SEVERITY	Z LOC	TIME O	CCURF	RED
1982	Normal Normal Scheduled Sac	rifice				PND 28 PND 63 PND 71	- PND - PND	49 70
1988	Normal Normal Normal Normal Scheduled Sac	rifice				PND 28 PND 63 PND 77 PND 98 PND 11	- PND - PND - PND	70 91
1991	Normal Scheduled Sac	rifice				PND 28 PND 71	-PND	70
1993	Normal Normal Normal Scheduled Sac	rifice				PND 28 PND 77 PND 98 PND 11	- PND - PND	91
2005	Normal Normal Scheduled Sac	rifice				PND 28 PND 63 PND 71	- PND - PND	49 70
2008	Normal Normal Normal Normal Scheduled Sac	rifice				PND 28 PND 63 PND 77 PND 98 PND 11	- PND - PND - PND	70 91



		INDIVII	DUAL	CLINICAL	SIGNS	(Postweaning	Period)	
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	4-F 18 (mg	base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS			SEVE	ERITY	LOC	T]:ME	OCCUR	RED
17614	Normal Scheduled Sacri							28-PND	
17616	Normal Normal Scheduled Sacri	ifice						28-PND 77-PND 97	
17712	Normal Scheduled Sacri	ifice					PND PND	28-PND 71	70
17713	Normal Normal Normal Normal Normal Scheduled Sacri	ifice					PND	119	91
17815	Normal Scheduled Sacri	ifice					PND	28-PND 71	70
17816	Normal Normal Normal Normal Normal Scheduled Sacri	ifice					PND PND PND PND	28-PND 77-PND 98-PND 112 119 126	91
17911	Normal Scheduled Sacri	ifice					PND PND	28-PND 71	70
17912	Normal Normal Normal Normal Scheduled Sacr	ifice					PND	119	91

	STODI	OF WRZ38	3605 SUCCINA	IE IN KAI	15 L		Lu u	u,
1		INDIVIDU	JAL CLINICAL	SIGNS (P	ostweaning	Period	d)	
STUDY: PND 28	200L -PND 126	GROUP: 4 DOSE: 1	-F : 8 (mg base/kg/day)	SEX: F	FEMALE			
ANIMAL #	OBSERVATIONS		SEV	ERITY	LOC	TIME	OCCUR	ED
18013	Normal Scheduled Sacri	ifice				PND PND	28-PND 71	70
18014	Normal Normal Normal Normal Normal Scheduled Sacri	ifice					77-PND 98-PND 112 119	91
18112	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
18116	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND PND PND PND	28-PND 77-PND 98-PND 112 119 126	70 91 105
18213	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
18214	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 112 119 125	91
18315	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
18317	Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND PND PND PND	28-PND 77-PND 98-PND 112 119 125	63 91 105



		INDIVI	DUAL CLINICAL	SIGNS	(Postweaning	Period)		
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	4-F 18 (mg base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS		SEVE	ERITY	LOC	TIME	OCCUR	RED
18411	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
18416	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND PND PND PND	119	63 91 105
18511	Normal Scheduled Sacr	ifice					28-PND 71	63
18515	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND		91
18611	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
18613	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 112 119 125	91
18712	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	63
18714	Normal Normal Normal Normal Normal Scheduled Sacr	ifice				PND PND PND PND	28-PND 77-PND 98-PND 112 119 125	91



	IND	IVIDUAL CLINICAL	SIGNS (Postweaning	Period)	
STUDY: PND 28-	200L GROU -PND 126 DOSE				••••
ANIMAL #	OBSERVATIONS	SEVE	ERITY LOC	TIME OCCUR	RED
18812	Normal Scheduled Sacrifice			PND 28-PND PND 71	
18815	Normal Normal Scheduled Sacrifice	· e		PND 28-PND PND 77-PND PND 97	70 91
18911	Dark Material Aroun Scheduled Sacrifice	nd Eyes		PND 28-PND PND 71	70
18912	Normal Normal Normal Scheduled Sacrifice	e		PND 28-PND PND 77-PND PND 98 PND 105	70 91
19012	Normal Scheduled Sacrifice	e		PND 28-PND PND 71	70
19019	Normal Normal Normal Scheduled Sacrifice	e		PND 28-PND PND 77-PND PND 98-PND PND 112	91
19112	Normal Scheduled Sacrifice	e		PND 28-PND PND 71	70
19114	Normal Normal Normal Scheduled Sacrifice	e		PND 28-PND PND 77-PND PND 98-PND PND 113	91
19214	Normal Scheduled Sacrifice	e		PND 28-PND PND 71	70
19215	Normal Normal Normal Scheduled Sacrifice	e ⁸		PND 28-PND PND 77-PND PND 98-PND PND 113	91



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•		INDIVII	OUAL CLINICAL	SIGNS	(Postweanin	g Perio	d)	
STUDY: PND 28	200L -PND 126	GROUP: DOSE:	4-F = 18 (mg base/kg/day)	SEX:	FEMALE			
ANIMAL #	OBSERVATIONS		SEV	ERITY	LOC	TIME	OCCUR	RED
19315	Normal Scheduled Sacr:	ifice				PND PND	28-PND 71	70
19317	Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 113	91
19415	Normal Scheduled Sacri	ifice				PND PND	28-PND 71	70
19416	Normal Normal Normal Scheduled Sacri	ifice				PND	28-PND 77-PND 98-PND 112	91
19512	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
19514	Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 112	91
19613	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
19617	Normal Normal Normal Scheduled Sacr	ifice				PND	28-PND 77-PND 98-PND 112	91
19715	Normal Scheduled Sacr	ifice				PND PND	28-PND 71	70
19716	Normal Normal Normal Scheduled Sacr	ifice				PND PND PND PND	28-PND 77-PND 98-PND 112	70 91 105

1	INDIVIDUAL CLINICAL SIGNS (Postweaning Period)	
	STUDY: 200L GROUP: 4-F = SEX: FEMALE PND 28-PND 126 DOSE: 18 (mg base/kg/day)	
	ANIMAL # OBSERVATIONS SEVERITY LOC TIME OCCURRED	_
	19812 Normal Normal Normal Normal Scheduled Sacrifice PND 28-PND 49 PND 63-PND 70 PND 77-PND 91 PND 97	
	19814 Normal Normal Scheduled Sacrifice PND 28-PND 49 PND 63-PND 70 PND 71	
	19912 Normal PND 28-PND 70 Scheduled Sacrifice PND 71	
	19915 Normal Normal Normal Normal Scheduled Sacrifice PND 28-PND 70 PND 77-PND 91 PND 98-PND 105 PND 112	
	20011 Normal PND 28-PND 49 Normal PND 63-PND 70 Scheduled Sacrifice PND 71	
	Normal	

APPENDIX H

INDIVIDUAL $\boldsymbol{F}_{\scriptscriptstyle 1}$ GENERATION BODY WEIGHTS AND WEIGHT GAIN

- Preweaning PeriodPostweaning Period

PREWEANING PERIOD: INDIVIDUAL LITTER BODY WEIGHTS AND BODY WEIGHT GAIN

Note: During the preweaning period, the litter was the experimental unit. Thus, the pup body weights and weight gain group means were derived in two steps. First, the individual pup body weights were used to determine the mean for each litter. Second, the litter means were used to determine the mean for each group. The individual pup body weights are located on pages H19 through H65.

		INDIVI	DUAL	BODY	WEIGHT	CS (Gran	ns) (Preweaning	g Period)
STUDY: 200P	ANIMAL #	GROUP: DOSE: PND 0		base/kg/	day) PND 14		MALE	
	ANIMAL #	PND U	PNU 4	PNU /	PND 14	PNU 21		
	101	7.0	11.7	18.6	36.2	58.5		
	102	6.7	11.0	16.9	34.5	56.8		
	103	7.4	12.1	19.6	40.3	62.7		
	104	7.1	12.1	18.5	38.4	60.5		
	105	6.9	11.6	18.7	38.2	60.0		
	106	6.3	11.1	17.6	36.7	57.9		
	107	6.9	12.5	18.3	36.3	56.2		
	108	7.4	12.3	18.6	36.1	58.6		
	109	6.9	11.9	19.0	36.0	54.4		
	110	6.7	10.7	17.1	35.6	55.3		
	111	7.7	12.4	19.0	36.6	59.5		
	112	6.7	10.7	16.2	33.7	52.7		
	113	6.6	10.9	18.1	36.4	59.0		
	114	6.1	9.3	14.9	32.7	50.7		
	115	6.0	9.7	15.5	31.1	48.2		
	116	6.9	11.9	18.4	35.6	56.5		
	117	6.5	10.7	17.3	37.8	59.2		
	118	6.5	11.0	17.0	38.4	59.9		
	119	7.4	11.9	18.7	37.2	57.6		
	120	6.2	9.6	14.8	31.0	48.9		
	121	6.6	10.2	16.8	33.9	53.0		
	122	6.1	9.7	14.6	31.8	48.3		
	123	6.1	9.7	15.9	33.9	50.2		
	124	5.7	8.2	14.4	32.2	48.7		
	125	6.5	11.0	19.0	38.4	55.1		
	MEAN	6.7	11.0	17.3	35.6	55.5		
	S.D.	0.50	1.13	1.58	2.50	4.34		
	N	25	25	25	25	25		
			: Data	Unava i l ab	le			

		INDIVI	DUAL	BODY	WEIGH'	rs (Gram	s) (Preweaning Period)	
STUDY: 200P		GROUP:	2-M			SEX:	MALE	
		DOSE:						
	ANIMAL #	PND 0	PND 4	PND 7	PND 14	PNO 21		
		• • • • • • • • • • • • •						
	126	7.1	12.0	19.8	40.1	63.1		
	127	7.5	10.8	16.9	34.5	54.9		
	128	6.5	10.8	16.6	33.7	54.9		
	129	7.0	12.5	20.8	43.0	64.7		
	130	7.1	12.2	19.5	38.3	61.7		
	131	6.9	10.8	17.7	39.1	58.9		
	132	7.0	12.2	20.1	41.9	66.3		
	133	6.8	11.0	17.5	34.7	56.0		
	134	7.3	11.0	16-4	32.0	52.4		
	135	7.0	12.4	18.6	35.3	59.1		
	136	7.1	11.5	17.2	31.8	49.6		
	137	6.7	10.7	17.3	34.3	50.0		
	138 d	0.7						
	139	6.5	11.1 11.0	18.0	33.8	54.9		
	140			17.5	34.7	55.0		
	141	6.3	10.1	15.3	31.9	50.1		
	142	7.3	11.9	19.0	39.3	57.6		
		5.7	9.0	15.7	34.4	51.5		
	143	6.6	10.5	16.3	33.7	54.8		
	144	7.0	9.4	14.6	30.2	49.3		
	145	6.0	9.9	14.8	29.3	39.4		
	146	6.1	9.7	15.8	35.4	54.3		
	147	5.7	8.9	14.3	30.8	47.3		
	148	6.4	10.6	16.7	33.0	53.8		
	149	6.3	11.5	17.2	35.8	54.2		
	150	6.8	11.0	16.9	33.1	51.5		
	MEAN	6.7	10.9	17.2	35.0	54.6		
	S.D.	0.49	1.01	1.72	3.54	5.83		
	N	24	25	25	25	25		
		_		Unavailab				

^aThe PND0 body weights for this litter were inadvertently not recorded.

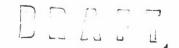


							s) (Preweaning	Period)
STUDY: 200P		GROUP:	3-M 6 (mg	base/kg/c	lay)	SEX:	MALE	
	ANTMAL #	PND D	PND 4	PND 7	PND 14	PND 21		
	151	7.1	12 1	10.7	38.8	(2 (
	151 152		12.1	19.3		62.6 56.6		
	153		11.1	16.6	35.5 33.7	53.4		
	154			16.6		55.5		
	155		10.5	17.0	34.7 36.3	59.5		
		6.5	10.2	16.7				
	156 157	6.5	10.0	16.2	34.5	55.5		
	158	6.8 5.5	10.8	17.4 15.2	35.3 31.0	56.9 49.6		
	159 a		9.5	13.2	31.0	49.0		
	160		9.9	16.5	33.2	52.4		
	161	6.2	10.2	15.6	30.6	47.9		
	162	6.8	11.8	18.4	36.3	54.5		
	163	6.4	10.0	16.1	32.9	52.0		
	164	6.0	9.6	14.6	32.5	48.3		
	165	6.1	9.6	15.0	33.6	54.8		
	166	5.6	9.2	14.9	31.7	50.0		
	167	5.7	9.8	15.4	33.1	49.8		
	168	6.4	9.6	15.8	33.7	52.7		
	169	6.0	10.2	15.3	31.9	49.0		
	170		9.1	15.1	33.9	55.8		
	171	6.5	10.3	16.0	32.8	53.0		
	172		8.1	13.0	30.2	46.7		
	173		12.9	21.1	40.8	61.6		
	174	7.1	11.8	18.9	39.3	62.5		
	175		9.2	14.1	29.5	46.0		
	MEAN	6.4	10.2	16.3	34.0	53.6		
	S.D.	0.53	1.08	1.78	2.82	4.80		
	N	24	24	24	24	24		
				Inava i lab				

 $^{^{\}mathrm{a}}\mathrm{There}$ was no F $_{\mathrm{1}}$ litter since F $_{\mathrm{0}}$ dam No. 159 was not pregnant.



							ns) (Prewea	aning Period)	
STUDY: 200P						SEX:	MALE		
		DOSE:	18 (1	ng base/kg	/day)				
	ANIMAL #	PND 0	PND 4	PND 7	PND 14	PND 21			
	176	6.3	11.1	17.1	32.8	51.5			
	177		9.7	14.9	28.0	48.0			
	178	6.6	10.1	15.5	27.7	46.5			
	179	6.5	10.1	15.8	32.4	53.0			
	180	6.0	9.1	13.8	26.2	43.8			
	181	6.7	10.3	15.4	30.0	49.9			
	182	6.3	9.6	14.1	28.8	47.9			
	183	6.6	10.3	17.4	35.0	56.4			
	184	6.1	9.6	13.7	27.6	46.1			
	185	6.9	10.8	16.1	29.7	50.7			
	186	6.0	9.3	14.0	27.5	42.0			
	187	6.7	10.6	15.8	29.1	47.5			
	188	6.6	10.1	16.4	31.8	51.3			
	189	5.2	7.6	12.2	25.7	40.3			
	190	5.9	7.5	11.7	25.4	42.4			
	191	6.0	9.9	15.0	30.1	47.2			
	192	5.6	8.5	11.9	24.6	40.3			
	193	5.6	8.1	13.0	28.4	43.2			
	194	6.2	9.1	14.5	31.5	51.9			
	195	6.2	9.0	14.2	29.0	45.5			
	196	5.8	9.0	13.6	25.1	43.1			
	197	6.3	8.3	12.5	25.4	40.6			
	198	6.8	10.0	15.7	28.7	47.3			
	199	5.3	7.2	10.9	24.2	38.5			
	200	6.5	9.9	15.2	30.6	50.9			
	MEAN		0 /		20 (
	MEAN	6.2	9.4	14.4	28.6	46.6			
	S.D.	0.46	1.04	1.70	2.80	4.64			
	N	25	25	25	25	25			
			: Data	Unavailab	l e				



STUDY: 200P GROUP: 1-F DOSE: 0 (mg base/kg/day) PNO 0 PNO 4 PNO 7 PND 14 PND 21 101F 6.6 11.1 17.6 34.2 55.8 102F 6.2 10.6 16.2 33.7 55.2 103F 6.3 10.8 17.9 37.3 57.6 104F 6.6 11.4 17.7 36.9 55.7 105F 6.6 10.5 11.0 35.6 55.5 107F 6.5 12.0 17.6 35.5 54.1 108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 0.5 16.0 35.6 54.2 118F 6.0 10.7 16.4 37.1 57.2 118F 6.9 11.0 17.7 36.1 54.8 128F 5.9 9.1 13.6 30.4 47.3 128F 5.9 9.5 15.6 32.6 47.5 128F 5.9 9.1 13.6 30.4 47.3 128F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 5.0 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		• • • • • • • • • • • • • • • • • • • •	INDIVI	DUAL	BODY	WEIGH:	rs (Grams	(Preweaning Period)
ANIMAL # PNO 0 PNO 4 PNO 7 PNO 14 PNO 21 101F 6.6 11.1 17.6 34.2 55.8 102F 6.2 10.6 16.2 33.7 55.2 103F 6.3 10.8 17.9 37.3 57.6 104F 6.6 11.4 17.7 36.9 55.7 105F 6.6 10.3 17.0 35.2 53.0 106F 5.7 10.5 16.9 35.6 55.5 107F 6.5 12.0 17.6 35.5 54.1 108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 34.8 54.4 119F 6.9 11.0 17.7 35.0 55.0 129F 5.8 8.9 14.3 29.6 47.5 129F 6.9 11.0 17.7 56.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2	STUDY: 200P		GROUP:	1-F 0 (mg	base/kg/	day)	SEX:	FEMALE
102F 6.2 10.6 16.2 33.7 55.2 103F 6.3 10.8 17.9 37.3 57.6 104F 6.6 11.4 17.7 36.9 55.7 105F 6.6 10.3 17.0 35.2 53.0 106F 5.7 10.5 16.9 35.6 55.5 107F 6.5 12.0 17.6 35.5 54.1 108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.8 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 122F 5.9 9.1 13.6 30.4 47.5 122F 5.9 9.1 13.6 30.4 47.5 122F 5.9 9.1 13.6 30.4 47.3 122F 5.9 9.5 15.6 32.6 48.6 48.6 122F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2		ANIMAL #	PNO O	PNO 4	PNO 7	PND 14	PND 21	
102F 6.2 10.6 16.2 33.7 55.2 103F 6.3 10.8 17.9 37.3 57.6 104F 6.6 11.4 17.7 36.9 55.7 105F 6.6 10.3 17.0 35.2 53.0 106F 5.7 10.5 16.9 35.6 55.5 107F 6.5 12.0 17.6 35.5 54.1 108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 36.9 55.7 110F 6.6 11.2 17.8 36.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 114F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 34.8 54.4 117F 6.9 11.0 17.7 36.8 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.8 54.3 122F 5.9 9.1 13.6 30.4 47.5 122F 5.9 9.1 13.6 30.4 47.5 122F 5.9 9.1 13.6 30.4 47.3 122F 5.9 9.5 15.6 32.6 48.6 48.6 122F 5.3 7.5 12.9 30.0 43.9 122F 5.2 25 25 25 25 25 25 25 25 25 25 25 25 25								
102F 6.2 10.6 16.2 33.7 55.2 103F 6.3 10.8 17.9 37.3 57.6 104F 6.6 11.4 17.7 36.9 55.7 105F 6.6 10.3 17.0 35.2 53.0 106F 5.7 10.5 16.9 35.6 55.5 107F 6.5 12.0 17.6 35.5 54.1 108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.8 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 122F 5.9 9.1 13.6 30.4 47.5 122F 5.9 9.1 13.6 30.4 47.5 122F 5.9 9.1 13.6 30.4 47.3 122F 5.9 9.5 15.6 32.6 48.6 48.6 122F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2		101F	6.6	11.1	17.6	34.2	55.8	
103F 6.3 10.8 17.9 37.3 57.6 104F 6.6 11.4 17.7 36.9 55.7 105F 6.6 10.3 17.0 35.2 53.0 106F 5.7 10.5 16.9 35.6 55.5 107F 6.5 12.0 17.6 35.5 54.1 108F 6.6 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 33.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 41.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2		102F						
105F 6.6 10.3 17.0 35.2 53.0 106F 5.7 10.5 16.9 35.6 55.5 107F 6.5 12.0 17.6 35.5 54.1 108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 114F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25								
106F 5.7 10.5 16.9 35.6 55.5 107F 6.5 12.0 17.6 35.5 54.1 108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 11.2 17.8 34.7 52.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 129F 6.9 11.0 17.7 36.1 54.8 129F 6.9 11.0 17.7 36.1 54.8 129F 5.9 9.1 13.6 30.4 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.5 15.6 32.6 48.6 122F 5.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2		104F	6.6	11.4	17.7	36.9	55.7	
107F 6.5 12.0 17.6 35.5 54.1 108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 5.0 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		105F	6.6	10.3	17.0	35.2	53.0	
108F 6.8 11.3 17.3 33.8 56.0 109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		106F	5.7	10.5	16.9	35.6	55.5	
109F 6.6 11.2 17.8 34.7 52.7 110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.7.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2		107F	6.5	12.0	17.6	35.5	54.1	
110F 6.6 10.5 17.0 35.0 53.7 111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		108F	6.8	11.3	17.3	33.8	56.0	
111F 6.9 11.5 17.2 33.1 51.6 112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		109F	6.6	11.2	17.8	34.7	52.7	
112F 6.3 9.8 15.8 33.2 52.3 113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		110F	6.6	10.5	17.0	35.0	53.7	
113F 6.0 10.2 16.8 33.8 54.9 114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.O. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		111F	6.9	11.5	17.2	33.1	51.6	
114F 5.8 9.0 15.0 33.4 52.9 115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.O. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		112F	6.3	9.8	15.8	33.2	52.3	
115F 5.6 8.7 14.1 29.5 45.0 116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 5.0 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		113F	6.0	10.2	16.8	33.8	54.9	
116F 6.6 11.3 17.7 34.8 54.4 117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		114F	5.8	9.0	15.0	33.4	52.9	
117F 6.0 9.5 16.0 35.6 54.3 118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		115F	5.6	8.7	14.1	29.5	45.0	
118F 6.0 10.7 16.4 37.1 57.2 119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		116F	6.6	11.3	17.7	34.8	54.4	
119F 6.9 11.0 17.7 36.1 54.8 120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.O. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		117F	6.0	9.5	16.0	35.6	54.3	
120F 5.8 8.9 14.3 29.6 47.5 121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		118F	6.0	10.7	16.4	37.1	57.2	
121F 6.2 9.6 15.4 32.5 50.1 122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		119F	6.9	11.0	17.7	36.1	54.8	
122F 5.9 9.1 13.6 30.4 47.3 123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		120F	5.8	8.9	14.3	29.6	47.5	
123F 5.9 9.5 15.6 32.6 48.6 124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		121F	6.2	9.6	15.4	32.5	50.1	
124F 5.3 7.5 12.9 30.0 43.9 125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		122F	5.9	9.1	13.6	30.4	47.3	
125F 6.2 10.1 17.0 36.3 55.2 MEAN 6.2 10.2 16.3 34.0 52.8 S.0. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25 25		123F	5.9	9.5	15.6	32.6	48.6	
MEAN 6.2 10.2 16.3 34.0 52.8 S.O. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		124F	5.3	7.5	12.9	30.0	43.9	
S.O. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25		125F	6.2	10.1	17.0	36.3	55.2	
S.O. 0.43 1.07 1.43 2.27 3.71 N 25 25 25 25 25								
N 25 25 25 25 25		MEAN	6.2	10.2	16.3	34.0	52.8	
		S.O.	0.43	1.07	1.43	2.27	3.71	
: Oata Unavailable		N	25	25	25	25	25	
				: Oata	Unava i lab	le		



		INDIVI	DUAL	BODY	WEIGH'	TS (Gram	s) (Preweanir	ng Period)	
STUDY: 200P		GROUP:	2-F			SEX:	FEMALE		
		DOSE:	Z (mg	base/kg/	day)				
	ANIMAL #	PND 0	PND 4	PND 7	PNO 14	PND 21			
	126F	7 1	11 6	10.7	77.0	EQ /			
	120r		11.5	18.3	37.9	58.4			
			9.9	15.3	32.0	49.6			
	128F	6.5	10.9	16.8	33.1	53.6			
	129F	6.8	11.5	19.1	39.9	58.6			
	130F	6.9	11.6	18.9	37.9	60.3			
	131F	6.5	10.6	17.0	37.3	55.9			
	132F	6.8	12.1	20.0	41.2	64.2			
	133F	6.3	10.6	16.4	33.9	53.2			
	134F	6.8	10.6	15.4	30.1	51.4			
	135F	6.7	11.9	17.7	34.4	55.2			
	136F	7.2	11.9	18.0	33.5	52.5			
	137F	6.3	10.4	16.5	33.0	50.3			
	138F ^a		10.1	16.4	32.1	52.8			
	139F	6.3	10.6	16.6	33.3	52.0			
	140F		9.4	14.2	30.3	46.5			
	141F	6.2	10.0	16.0	34.6	51.2			
	142F		8.9	15.1	33.4	49.3			
	143F		9.8	15.1	31.2	49.5			
	144F		8.8	13.5	28.2	46.8			
	145F		8.9	13.6	27.2	37.0			
	146F	6.0	9.3	14.7	33.6	50.3			
	147F	5.1	8.3	13.5	29.6	44.7			
	148F	6.1	10.1	16.3	32.4	51.8			
	149F	6.1	11.0	15.6	32.3	49.6			
	150F	6.5	10.8	15.9	31.1	48.5			
	MEAN	6.4	10.4	16.2	33.3	51.7			
	S.D.		1.06	1.74	3.41	5.45			
	N	24	25	25	25	25			
				Unavailab		-			

^aThe PND0 body weights for this litter were inadvertently not recorded.



		INDIVI	DUAL	BODY	WEIGH'	TS (Gram	ns) (Preweaning Per	iod)
STUDY: 200P		GROUP: DOSE:	3-F 6 (mg	base/kg/	day)	SEX:	FEMALE	
	ANIMAL #	PND 0	PND 4	PND 7	PND 14			
	151F	6.8	11.5	18.1	36.8	59.5		
	152F		9.5	15.3	33.7	53.2		
	153F	6.8	10.8	16.7	33.5	53.3		
	154F	6.0	10.1	16.0	32.8	52.0		
	155F	6.4	10.0	16.4	34.1	54.7		
	156F		9.8	16.1	34.1	54.2		
	157F	6.4	10.1	16.4	34.5	54.5		
	158F	5.6	9.2	14.9	30.9	48.8		
	159Fa							
	160F	6.1	10.0	15.5	32.4	51.7		
	161F	5.9	9.6	14.6	28.6	45.9		
	162F	6.4	11.1	17.4	35.1	52.0		
	163F	6.0	9.4	14.6	30.0	47.4		
	164F	5.8	8.8	13.4	30.4	46.4		
	165F	5.8	9.1	14.3	31.5	51.3		
	166F	5.3	8.8	14.2	30.2	48.5		
	167F	5.4	9.1	13.9	30.7	45.8		
	168F	5.9	9.1	15.2	32.9	50.6		
	169F	5.6	9.8	14.8	30.4	47.2		
	170F	5.7	8.5	14.3	33.5	53.3		
	171F	6.1	9.8	15.4	31.1	49.4		
	172F	5.5	7.7	12.2	29.3	45.2		
	173F	7.2	10.6	18.3	37.0	56.8		
	174F	6.5	10.8	17.7	37.2	58.8		
	175F	6.2	8.6	13.6	28.9	44.6		
	MEAN	6.1	9.7	15.4	32.5	51.0		
	S.D.	0.46	0.90	1.55	2.53	4.24		
	N	24	24	24	24	24		
				Unavailab		_		

 $^{^{\}rm a} There$ was no $\rm F_1$ litter since $\rm F_0$ dam No. 159 was not pregnant.

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		INDIVI	DUAL	BODY	WEIGH:	TS (Gran	ms) (Preweaning Period)
STUDY: 200P		GROUP: DOSE:	4-F	g base/kg		SEX:	FEMALE
	ANIMAL #	PND 0	PND 4	PND 7	PND 14		
	176F	6.0	10.9	16.9	32.0	49.9	
	177F	5.8	9.1	13.6	26.5	46.5	
	178F	6.6	9.5	14.2	25.6	44.0	
	179F	6.1	10.0	15.5	32.0	52.2	
	180F	5.7	8.7	13.7	26.2	45.5	
	181F	6.1	9.3	13.6	26.0	41.3	
	182F	6.0	9.2	12.9	26.1	44.1	
	183F	6.0	9.4	15.8	32.8	52.7	
	184F	5.9	9.4	13.9	27.4	44.7	
	185F	6.3	9.9	14.4	27.2	45.9	
	186F	5.7	8.8	14.0	26.7	40.8	
	187F	6.4	10.1	15.5	29.4	48.0	
	188F	6.0	9.0	14.2	29.5	46.6	
	189F	4.8	6.5	9.9	21.9	31.9	
	190F	5.8	7.5	11.4	24.2	40.5	
	191F	5.9	9.6	15.3	30.1	49.2	
	192F	5.3	7.9	11.2	23.0	38.4	
	193F	5.3	7.8	12.3	27.6	41.4	
	194F	6.1	9.0	14.4	30.8	50.6	
	195F	5.7	8.3	13.6	28.6	43.5	
	196F	5.6	8.4	13.1	24.2	40.7	
	197F	5.6	7.7	11.9	23.9	38.8	
	198F	6.6	9.8	15.5	27.4	45.3	
	199F	5.1	7.1	11.0	23.8	37.4	
	200F	6.2	9.7	15.2	30.7	51.4	
	MEAN	5.9	8.9	13.7	27.3	44.4	
	S.D.	0.43	1.04	1.71	3.01	5.12	
	N	25	25	25	25	25	
			: Data	Unavailab	le		

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	Il	NDIVID	UAL W	EIGHT	GAIN (Grams) ^a (Prewe	aning Period)
STUDY: 200P	GRO	OUP: 1	- M		SE	X: MALE	
	DO:	SE: 0	(mg base	kg/day)			
	ANIMAL #	PND 4b	PND 7	PND 14	PND 21	TOTAL GAIN	
	101	4.7	6.8	17.7	22.3	51.5	
	102	4.3	6.0	17.6	22.3	50.1	
	103	4.7	7.5	20.7	22.4	55.3	
	104	5.0	6.4	19.9	22.2	53.5	
	105	4.7	7.1	19.5	21.8	53.1	
	106	4.8	6.5	19.1	21.3	51.6	
	107	5.6	5.8	18.1	19.8	49.2	
	108	4.9	6.3	17.5	22.5	51.2	
	109	5.0	7.1	17.0	18.4	47.5	
	110	4.0	6.4	18.5	19.8	48.6	
	111	4.7	6.6	17.6	22.9	51.9	
	112	4.0	5.4	17.5	19.0	46.0	
	113	4.4	7.2	18.3	22.6	52.5	
	114	3.2	5.6	17.8	17.9	44.6	
	115	3.7	5.8	15.6	17.1	42.2	
	116	5.1	6.5	17.2	20.9	49.7	
	117	4.2	6.6	20.5	21.4	52.6	
	118	4.5	5.9	21.4	21.6	53.4	
	119	4.5	6.8	18.6	20.4	50.2	
	120	3.4	5.2	16.2	17.9	42.7	
	121	3.7	6.5	17.1	19.1	46.4	
	122	3.6	4.9	17.2	16.5	42.3	
	123	3.7	6.2	17.9	16.4	44.2	
	124	2.5	6.3	17.8	16.5	43.0	
	125	4.5	8.1	19.4	16.6	48.5	
	MEAN	4.3	6.4	18.2	20.0	48.9	
	S.D.	0.70	0.73	1.39	2.27	3.97	
	N	25	25	25	25	25	
		: Da	ata Unav	ailable			

^aWeight gains compared to the previous period. ^bBaseline is PND0.

						Grams) ^a (Prewean	ing Period)	
STUDY: 200P	GE	OUP: 2	- M		SE	X: MALE	,	
51001. 2001				e/kg/day)	OL.	A. PHADE		
	50		ting basi	e/kg/day/		TOTAL		
	ANIMAL #	PND 4b	PND 7	DND 14	PND 21	GAIN		
	126	4.9	7.7	20.4	22.9	55.9		
	127	3.4	6.1	17.7	20.4	47.5		
	128	4.3	5.8	17.1	21.3	48.4		
	129	5.5	8.3	22.2	21.7	57.8		
	130	5.1	7.3	18.8	23.3	54.6		
	131	3.9	6.9	21.4	19.9	52.0		
	132	5.2	7.9	21.8	24.5	59.4		
	133	4.2	6.4	17.3	21.2	49.1		
	134	3.6	5.4	15.6	20.4	45.1		
	135	5.4	6.3	16.7	23.8	52.1		
	136	4.5	5.7	14.6	17.8	42.5		
	137	4.0	6.6	17.0	15.8	43.4		
	138 ^C		6.9	15.8	21.1	43.8		
	139	4.4	6.6	17.2	20.3	48.5		
	140	3.8	5.2	16.5	18.2	43.8		
	141	4.7	7.1	20.3	18.2	50.3		
	142	3.3	6.7	18.7	17.1	45.8		
	143	3.9	5.8	17.4	21.1	48.2		
	144	2.5	5.2	15.6	19.1	42.3		
	145	3.8	4.9	14.5	10.1	33.4		
	146	3.6	6.1	19.6	18-9	48.2		
	147	3.2	5.5	16.5	16.5	41.6		
	148	4.2	6.1	16.3	20.7	47.3		
	149	5.2	5.7	18.6	18.4	47.9		
	150	4.3	5.9	16.2	18.4	44.7		
	MEAN	4.2	6.3	17.8	19.6	47.7		
	S.D.	0.76	0.88	2.17	2.99	5.65		
	N.	24	25	25	25	25		
	N		ata Unav		23	23		
		. 0	aca onav	a . table				

^aWeight gains compared to the previous period. ^bBaseline is PND0.

^cThe PND0 body weights for this litter were inadvertently not recorded.



	IN	DIVID	IAL WI	EIGHT	GAIN (Gr	ams) ^a (Prew	eaning Period)	
STUDY: 200P	GRO DOS	UP: 3- E: 6	M (mg base)	/kg/day)	SEX			
	ANIMAL #	PND 4 b	PND 7	PND 14	PND 21	TOTAL GAIN		
	151	5.0	7.3	19.4	23.8	55.5		
	152	4.0	6.2	18.8	21.1	50.1		
	153	4.1	5.5	17.1	19.8	46.4		
	154	4.1	6.5	17.8	20.8	49.0		
	155	3.7	6.6	19.6	23.2	53.0		
	156	3.5	6.2	18.3	21.0	49.0		
	157	3.9	6.6	17.9	21.6	50.1		
	158	4.0	5.7	15.9	18.6	44.1		
	159 ^C							
	160	3.5	6.6	16.7	19.3	46.0		
	161	4.0	5.4	15.0	17.4	41.8		
	162	5.0	6.6	17.9	18.3	47.7		
	163	3.6	6.1	16.8	19.1	45.6		
	164	3.6	4.9	17.9	15.9	42.3		
	165	3.5	5.5	18.5	21.2	48.7		
	166	3.6	5.7	16.8	18.3	44.3		
	167	4.1	5.6	17.7	16.7	44.1		
		3.2	6.2	17.9	19.0	46.4		
	169		5.1	16.6	17.1	43.1		
	170	3.1	5.9	18.9	21.9	49.8		
	171		5.7	16.8	20.2	46.5		
	172 173	2.3	5.0	17.2	16.4	40.9		
	174	5.1	8.2	19.6	20.8	53.8		
	175	4.7 2.5	7.1 5.0	20.4 15.4	23.3 16.5	55.5		
	175	2.5	5.0	13.4	10.0	39.3		
	MEAN	3.8	6.1	17.7	19.6	47.2		
	S.D.	0.70		1.36	2.30	4.44		
	N	24	24	24		24		
		: Da	ta Unava					

 $^{^{\}rm a}\text{Weight gains compared to the previous period.}$ $^{\rm b}\text{Baseline is PND0.}$ $^{\rm c}\text{There was no F}_{\rm 1}$ litter since F $_{\rm 0}$ dam No. 159 was not pregnant.



• • • • • • • • • • • • • • • • • • • •						Grams) ^a (Preweaning Perio	d)
STUDY: 200P	GR	OUP: 4	-M		SE	X: MALE	
	DO	SE: 18	3 (mg ba				
		b		PND 14		TOTAL	
	ANIMAL #	PND 4 b	PND 7	PND 14	PND 21	GAIN	
	176	4.8	6.0	15.7	18.8	45.2	
	177	3.5	5.2	13.1	20.1	41.8	
	178	3.4	5.5	12.2	18.8	39.9	
	179	3.7	5.7	16.6	20.6	46.6	
	180	3.1	4.7	12.4	17.6	37.9	
	181	3.6	5.1	14.6	19.9	43.2	
	182	3.3	4.5	14.8	19.1	41.6	
	183	3.8	7.0	17.7	21.4	49.8	
	184	3.5	4.0	13.9	18.6	40.0	
	185	3.9	5.3	13.6	21.1	43.9	
	186	3.2	4.7	13.5	14.6	36.0	
	187	3.9	5.2	13.3	18.4	40.9	
	188	3.4	6.4	15.4	19.6	44.7	
	189	2.4	4.6	13.5	14.7	35.2	
	190	1.7	4.2	13.7	17.0	36.6	
	191	3.8	5.1	15.1	17.2	41.2	
	192	3.0	3.4	12.6	15.7	34.7	
	193	2.5	4.9	15.4	14.8	37.6	
	194	2.9	5.4	17.1	20.4	45.7	
	195	2.8	5.2	14.8	16.5	39.3	
	196	3.2	4.5	11.5	18.0	37.3	
	197	2.1	4.2	12.9	15.2	34.3	
	198	3.2	5.7	13.0	18.6	40.5	
	199	2.0	3.7	13.2	14.4	33.3	
	200	3.4	5.3	15.4	20.3	44.5	
	MEAN	3.2	5.0	14.2	18.1	40.5	
	S.D.	0.69	0.82	1.58	2.20	4.31	
	N	25	25	25	25	25	
		: Da	ta Unav	ailable			

^aWeight gains compared to the previous period. ^bBaseline is PND0.



			NDIVIDU	JAL W	EIGHT	GAIN (Grams) ^a (Pre	eaning Period	d)	
STUDY:	200P	GF	ROUP: 1- DSE: 0	F (ma bac	- (kg (day)	SE	X: FEMAL	E		
		DC	JSE: U	(mg bas	e/kg/day)	,	TOTAL			
		ANIMAL #	PND 4 b	PND 7	PND 14	PND 21	GAIN			
		101F	4.5	6.5	16.7	21.6	49.2			
		102F	4.4	5.6	17.4	21.6	49.0			
		103F	4.5	7.1	19.3	20.4	51.3			
		104F	4.8	6.3	19.2	18.8	49.1			
		105F	3.7	6.7	18.3	17.7	46.4			
		106F	4.8	6.4	18.7	19.9	49.7			
		107F	5.6	5.6	17.9	18.7	47.7			
		108F	4.5	6.0	16.5	22.2	49.2			
		109F	4.6	6.6	17.0	18.0	46.1			
		110F	3.9	6.6	18.0	18.7	47.1			
		111F	4.6	5.8	15.9	18.5	44.7			
		112F	3.5	6.0	17.4	19.1	46.0			
		113F	4.3	6.6	17.0	21.1	48.9			
		114F	3.2	6.0	18.3	19.5	47.1			
		115F	3.1	5.4	15.4	15.5	39.4			
		116F	4.7	6.4	17.1	19.6	47.7			
		117F	3.5	6.6	19.5	18.8	48.3			
		118F	4.7	5.7	20.7	20.1	51.2			
		119F	4.0	6.7	18.4	18.7	47.9			
		120F	3.1	5.4	15.3	17.9	41.7			
		121F	3.5	5.8	17.1	17.6	43.9			
		122F	3.1	4.5	16.8	16.8	41.4			
		123 F	3.6	6.1	17.1	16.0	42.7			
		124F	2.2	5.4	17.1	14.0	38.7			
		125F	3.9	6.9	19.4	18.8	49.0			
		MEAN	4.0	6.1	17.7	18.8	46.5			
		S.D.	0.76	0.60	1.33	1.93	3.48			
		N	25	25	25	25	25			

--: Oata Unavailable

^aWeight gains compared to the previous period. ^bBaseline is PND0.



	I				GAIN (Grams) ⁸ (Preweaning Period)	
STUDY: 200P		OUP: 2	- F		SE	X: FEMALE	
	DO	SE: 2	(mg base	e/kg/day)			
		b		PND 14		TOTAL	
	ANIMAL #	PND 4 b	PND 7	PND 14	PND 21	GAIN	
	126F	4.4	6.7	19.7	20.5	51.3	
	127F	3.1	5.4	16.7	17.6	42.8	
	128F	4.4	5.9	16.4	20.5	47.1	
	129F						
		4.7	7.7	20.7	18.8	51.9	
		4.8	7.3	19.0	22.4	53.4	
		4.0	6.4	20.3	18.6	49.4	
	132F	5.3	7.8	21.2	23.0	57.4	
		4.3	5.8	17.6	19.3	46.9	
		3.7	4.9	14.6	21.3	44.5	
	135 F	5.2	5.8	16.7	20.7	48.5	
		4.7	6.1	15.5	19.1	45.3	
	137F	4.1	6.1	16.6	17.3	44.0	
	138F ^C		6.3	15.7	20.7	42.8	
	139F	4.3	6.0	16.7	18.7	45.7	
	140F	3.4	4.9	16.1	16.2	40.6	
	141F	3.9	6.0	18.6	16.6	45.0	
	142F	3.3	6.2	18.3	15.9	43.7	
	143F	3.5	5.3	16.1	18.3	43.2	
	144F	2.3	4.7	14.7	18.6	40.4	
	145F	3.2	4.7	13.6	9.8	31.3	
	146F	3.2	5.5	18.9	16.7	44.3	
	147F	3.2	5.2	16.1	15.0	39.5	
	148F	4.0	6.3	16.1	19.4	45.7	
	149F	4.9	4.6	16.8	17.2	43.4	
	150F	4.3	5.1	15.2	17.4	42.0	
	MEAN	4.0	5.9	17.1	18.4	45.2	
	S.D.	0.75	0.88	1.99	2.70	5.15	
	N	24	25	25	25	25	
		: D	ata Unav	ailable			

^aWeight gains compared to the previous period.

bBaseline is PND0.

^cThe PND0 body weights for this litter were inadvertently not recorded.

INDIVIDUAL WEIGHT GAIN (Grams)^a (Preweaning Period)



STUDY: 200P		GROUP: 3-F DOSE: 6 (mg base/kg/day)				SE	X: FEMALE	
		ANIMAL #	PND 4b	PND 7	PNO 14	PND 21	TOTAL GAIN	
		151F	4.8	6.6	18.7	22.8	52.8	
		152F	3.5	5.8	18.5	19.5	47.3	
		153F	4.0	5.9	16.8	19.8	46.5	
		154F	4.1	5.9	16.7	19.2	45.9	
		155 F	3.7	6.3	17.7	20.6	48.3	
		156F	3.6	6.3	18.0	20.1	48.0	
		157F	3.7	6.3	18.1	20.1	48.1	
		158F	3.6	5.7	16.0	17.8	43.2	
		159F C						
		160F	3.9	5.5	16.9	19.4	45.6	
		161F	3.6	5.0	14.1	17.3	40.0	
		162F	4.6	6.4	17.7	16.9	45.6	
		163F	3.4	5.2	15.4	17.4	41.3	

4.7

5.2

5.4

4.8

6.1

5.0

5.8

5.7

4.5

7.7

7.0

4.9

5.7

0.77

24 --: Data Unavailable

17.0

17.2

16.0

16.8

17.7

15.6

19.1

15.7

17.1

18.7

19.4

15.3

17.1

1.34

24

15.9

19.8

18.3

15.1

17.7

16.8

19.8

18.3

16.0

19.8

21.7

18.6

1.97

24

40.6

45.4

43.2

40.4

44.7

41.6

47.6

43.4

39.7

49.6

52.3

38.4

45.0

3.92

24

^aWeight gains compared to the previous period.

164F

165F

166F

167F

168F

169F

170F

171F

172F

173F

174F

175F

MEAN

S.D.

N

^bBaseline is PND0.

3.0

3.3

3.5

3.7

3.2

4.2

2.9

3.7

2.1

3.4

4.2

3.6

0.61

24

 $^{^{\}circ}$ There was no F, litter since F $_{\circ}$ dam No. 159 was not pregnant.

INDIVIDUAL WEIGHT GAIN (Grams) a (Preweaning Period)

STUDY: 200P

GROUP: 4-F DOSE: 18 (mg base/kg/day)

. 5

SEX: FEMALE

_					TOTAL
ANIMAL #	PND 4 b	PND 7		PND 21	GAIN
176F	4.8	6.0	15.2	17.9	43.9
177F				20.0	
178F	2.9	4.7	11.4	18.4	37.4
179F	3.9	5.5	16.6	20.2	46.1
180F	3.1	4.9	12.5	19.3	39.8
181F	3.2	4.4	12.4	15.3	
182F	3.2	3.7	13.2	18.0	38.2
183F	3.5	6.4		19.8	46.7
184F	3.5	4.4	13.5	17.3	38.8
185F	3.6	4.5	12.9	18.7	39.6
186F	3.1	5.2	12.8	14.1	35.1
187F	3.7	5.4	13.9	18.6	41.6
188F	3.0	5.2	15.3	17.1	40.6
189F	1.6	3.5	12.0	10.0	27.1
190F	1.7	3.9	12.8	16.3	34.7
191F	3.7	5.8	14.7	19.1	43.2
192F	2.6	3.3	11.8	15.4	33.1
193F	2.5		15.2		36.1
194F	2.9			19.8	44.5
195F	2.7		15.0		37.8
196F	2.8	4.7	11.1	16.5	35.1
197F	2.0	4.2			33.1
198F	3.2	5.7	11.9	17.9	38.8
199F	2.0	3.9	12.8	13.7	32.3
200F	3.4	5.6	15.5	20.7	45.2
MEAN	3.0	4.8	13.6	17.1	38.6
S.D.	0.72	0.82	1.73	2.59	4.84
N	25	25	25	25	25
	: Da	ata Unav	ailable		

^aWeight gains compared to the previous period.

^bBaseline is PND0.

PREWEANING PERIOD: INDIVIDUAL PUP BODY WEIGHTS

Preweaning Period: Individual Pup Body Weights (Male)
0 mg base/kg/day



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
10101	7.33	12.31	19.22	37.56	59.94
10102	6.95	11.20	17.64	33.90	56.69
10103	6.96	11.95	18.78	37.19	58.82
10104	6.87	11.49	С	С	С
Mean	7.03	11.74	18.55	36.22	58.48
S.D.	3.00	3.00	3.00	3.00	3.00
10201	7.17	11.61	18.12	36.37	58.66
10202	7.04	11.68	a	a	a
10203	6.30	10.75	16.71	33.79	55.24
10204	5.76	10.36	15.77	33.53	54.62
10205	6.14	9.91	15.99	33.46	56.48
Mean	6.48	10.86	16.65	34.29	56.25
S.D.	0.60	0.77	1.06	1.40	1.78
10301	7.19	11.81	19.26	40.93	61.16
10302	7.23	11.71	18.93	37.33	62.12
10302	7.43	12.20			
	7.45		a 20.62	a 41 52	a 62.07
10304		12.61	20.62	41.52	62.97
10305	7.51	12.20	a	a	a
10306	7.36	12.08	19.43	41.27	64.46
Mean	7.36	12.10	19.56	40.26	62.68
S.D.	0.13	0.32	0.74	1.97	1.40
10401	7.54	13.00	a	a	a
10402	6.90	12.27	a	a	a
10403	6.70	11.72	18.04	38.54	61.02
10404	6.99	11.66	a	a	a
10405	7.34	12.65	19.37	39.55	61.85
10406	6.96	12.13	18.48	37.88	59.23
10407	7.12	11.42	18.05	37.57	60.05
No.	7.00	10.10	10.40	20.00	60.5
Mean	7.08	12.12	18.49	38.39	60.54
S.D.	0.28	0.57	0.62	0.88	1.14
10501	7.13	11.84	a	a	a
10502	6.81	11.85	19.38	39.79	63.13
10503	6.82	11.61	18.63	37.64	60.31
10504	6.94	11.28	18.32	37.77	57.81
10505	7.19	11.97			a
10506	6.72	11.31	18.39	37.52	58.66
10507	6.65	11.21	a	a	a
			a	a	a
Mean	6.89	11.58	18.68	38.18	59.98
S.D.	0.20	0.31	0.49	1.08	2.34

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4

Preweaning Period: Individual Pup Body Weights (Male) 0 mg base/kg/day



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
10601	6.72	11.64	a	a	a
10602	6.59	11.28	a	a	a
10603	6.37	10.62	17.24	35.92	58.19
10604	6.31	11.26	18.36	37.32	59.50
10605	6.02	10.71	17.01	36.57	56.34
10606	6.02	11.00	17.64	36.77	57.70
Mean	6.34	11.09	17.56	36.65	57.93
S.D.	0.29	0.38	0.59	0.58	1.31
	-				
10701	6.78	12.33	17.87	35.61	53.40
10702	7.17	12.73	18.64	37.38	57.21
10703	6.84	12.48	18.37	36.04	57.84
Mean	6.93	12.51	18.29	36.34	56.15
S.D.	0.21	0.20	0.39	0.92	2.40
10801	7.51	12.98	19.46	36.44	58.33
10802	7.16	11.46	17.80	35.71	57.58
10803	7.60	12.35	18.68	36.36	59.24
10804	7.44	12.39	18.41	35.93	59.17
Mann	7 42	12.30	10.50	26.11	50.50
Mean S.D.	7.43	0.63	18.59	36.11	58.58
S.D.	0.19	0.63	0.69	0.35	0.78
10901	7.33	12.61	20.08	34.73	51.41
10902	6.90	11.86	18.76	37.49	54.67
10903	6.32				
10903	6.82	11.01	a	a	a
			a	a	a
10905	7.11	12.58	19.92	38.02	59.87
10906	7.11	12.22	a	a	a
10907	6.41	10.85	17.21	33.89	51.62
Mean	6.86	11.89	18.99	36.03	54.39
S.D.	0.37	0.71	1.33	2.03	3.94
	0.5.	0	2.03	2.03	3.7.
11001	6.33	8.90	15.13	32.95	50.21
11001	6.94	11.42	17.86	36.15	54.59
11002	6.90	11.42			
11003	7.18	11.55	18.17	a 37.49	60.75
11004	6.46	10.52	17.19	35.65	55.76
11005	6.38	10.32			
11000	0.36	10.20	a	a	a
Mean	6.70	10.70	17.09	35.56	55.33
			1		1

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4

Preweaning Period: Individual Pup Body Weights (Male)
0 mg base/kg/day



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
11101	7.76	12.60	19.31	36.09	57.79
11102	7.67	12.24	18.49	34.47	55.64
11103	7.57	12.38	19.15	39.29	65.20
Mean	7.67	12.41	18.98	36.62	59.54
S.D.	0.10	0.18	0.43	2.45	5.02
11201	6.90	10.83	a	a	a
11202	6.74	11.03	a	a	a
11203	6.39	10.50	17.49	35.57	56.57
11204	6.73	10.87	a	а	a
11205	6.48	10.68	17.20	34.31	53.13
11206	6.82	10.97	a	a	a
11207	6.45	10.00	15.05	33.45	51.13
11208	6.58	10.07	14.84	31.35	49.93
11209	7.06	11.53	a	a	a
Mean	6.68	10.72	16.15	33.67	52.69
S.D.	0.23	0.48	1.39	1.77	2.90
11301	6.55	11.00	18.42	37.36	62.84
11302	6.62	11.07	a	a	a
11303	6.51	11.06	a	a	a
11304	7.04	11.88	19.08	37.04	60.27
11305	6.54	10.33	17.65	36.09	57.33
11306	6.07	10.34	17.20	35.20	55.73
11313	6.59	10.69	a	a	a
Mean	6.56	10.91	18.09	36.42	59.04
S.D.	0.28	0.53	0.83	0.98	3.15
11401	6.06	9.21	а	a	a
11402	6.51	9.30	15.85	34.49	56.21
11403	6.08	9.43	a	a	a
11404	6.06	9.39	а	a	a
11405	6.27	9.68	a	a	a
11406	5.95	9.22	14.10	30.62	44.52
11407	6.11	9.11	a	a	a
11408	5.84	9.38	15.18	33.10	50.90
11409	5.95	8.86	14.50	32.76	51.06
Mean	6.09	9.29	14.91	32.74	50.67
S.D.	0.20	0.23	0.77	1.60	4.79

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4

Preweaning Period: Individual Pup Body Weights (Male) 0 mg base/kg/day



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
11501	6.17	9.90	15.83	32.24	50.88
11502	5.76	9.08	14.75	30.64	46.47
11503	5.77	9.41	15.21	30.70	47.89
11505	6.35	10.24	16.10	30.72	47.54
Mean	6.01	9.66	15.47	31.08	48.20
S.D.	0.30	0.51	0.61	0.78	1.89
11601	6.72	11.43	17.40	34.56	54.40
11602	6.80	11.86	18.56	35.34	56.53
11603	7.02	12.55	19.04	36.79	60.06
11604	6.86	11.82	18.58	35.76	55.14
11617	6.70	11.91	а	a	a
Mean	6.82	11.91	18.40	35.61	56.53
S.D.	0.13	0.40	0.70	0.93	2.51
11701	6.79	11.29	18.76	38.87	61.64
11702	6.29	11.18	а	a	a
11703	6.81	10.81	17.34	37.52	57.39
11704	5.88	9.69	16.09	37.31	59.01
11705	6.24	10.33	17.16	37.55	58.58
11706	6.75	10.57	a	a	a
11707	6.53	10.95	а	a	a
11708	6.97	10.81	a	a	a
11713	4.80	8.05	а	a	a
11714	6.79	10.83	a	a	a
Mean	6.39	10.45	17.34	37.81	59.16
S.D.	0.65	0.96	1.10	0.71	1.79
11801	6.78	10.27	a	a	a
11802	6.24	10.91	16.19	37.04	57.80
11803	6.30	10.93	а	a	a
11804	6.28	10.89	a	a	a
11805	6.89	11.54	17.80	39.59	59.89
11806	6.62	11.50	a	a	a
11807	6.24	11.36	a	a	a
11808	6.50	11.49	17.43	38.98	61.01
11809	6.68	10.49	16.43	37.85	61.05
Mean	6.50	11.04	16.96	38.37	59.94
S.D.	0.25	0.46	0.77	1.14	1.52

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4

			•		
Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
11901	7.37	11.46	18.49	38.80	58.86
11902	7.17	11.95	19.04	37.41	60.46
11903	7.84	11.98	19.22	38.19	57.94
11904	7.40	12.12	a	a	a
11905	7.16	11.73	17.88	34.52	53.15
Mean	7.39	11.85	18.66	37.23	57.60
S.D.	0.28	0.26	0.60	1.89	3.15
12001	6.26	9.62	a	a	a
12002	6.24	9.80	15.35	31.57	49.70
12003	6.05	9.37	14.23	30.52	45.83
12004	6.22	9.66	14.96	30.22	50.81
12005	5.96	9.39	14.45	31.49	49.17
Mean	6.15	9.57	14.75	30.95	48.88
S.D.	0.13	0.18	0.50	0.68	2.14
12101	6.96	b	b	b	b
12102	6.51	10.66	17.45	34.19	53.92
12103	6.52	10.94	a	a	a
12104	6.51	9.60	16.20	32.35	51.76
12105	6.17	9.78	16.90	33.80	53.51
12106	6.66	10.15	16.48	35.08	52.69
Mean	6.56	10.23	16.76	33.86	52.97
S.D.	0.26	0.57	0.54	1.14	0.96
12201	5.85	8.93	a	a	a
12202	6.15	9.48	14.60	31.74	48.63
12203	5.99	10.02	14.16	31.63	48.67
12204	5.87	b	b	b	b
12205	5.98	9.95	14.71	31.43	48.09
		10.14	14.92	32.43	47.95
12206	0.45				
	6.45	-			a
12206 12207 12208	6.45	9.13	a	a	a
12207	6.24	-			a a
12207	6.24	9.13	a	a	

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4

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		3	1
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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
12301	5.95	9.54	15.73	33.35	48.38
12302	6.21	9.86	a	a	a
12303	5.62	9.02	15.04	32.61	50.15
12304	5.89	9.17	a	a	a
12305	5.91	9.36	a	a	a
12306	6.04	10.10	16.96	35.75	51.92
12307	6.17	9.87	16.04	33.69	50.49
12308	6.78	10.57	a	a	a
12309	5.91	10.09	a	a	a
Mean	6.05	9.73	15.94	33.85	50.24
S.D.	0.32	0.50	0.80	1.34	1.46
12401	5.91	7.73	a	a	a
12402	5.87	8.45	14.78	33.58	48.91
12403	5.38	8.35	14.37	31.41	47.22
12404	5.47	7.68	a	a	a
12405	5.53	8.17	14.17	30.95	47.27
12406	5.66	8.04	a	a	a
12407	5.34	7.55	a	a	a
12408	5.91	8.62	14.32	32.88	51.26
12409	5.71	8.44	a	a	a
12410	5.77	8.57	a	a	a
12414	5.39	7.88	a	a	a
Mean	5.63	8.13	14.41	32.21	48.67
S.D.	0.22	0.38	0.26	1.23	1.90
12501	6.35	10.59	18.62	38.00	56.39
12515	6.68	11.34	19.46	38.86	53.72
Mean	6.52	10.97	19.04	38.43	55.06
S.D.	0.23	0.53	0.59	0.61	1.89
S.D.	0.23	0.53	0.59	0.61	1.89

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
12601	7.11	11.54	a	a	а
12602	7.07	12.22	a ·	a	a
12603	7.29	12.57	20.17	41.50	63.70
12604	7.08	12.31	20.34	39.92	64.03
12605	7.04	11.87	a	a	a
12606	7.46	12.36	19.56	39.74	62.97
12607	7.57	12.17	18.93	39.27	61.50
12613	6.35	11.15	а	а	а
Mean	7.12	12.02	19.75	40.11	63.05
S.D.	0.37	0.47	0.64	0.97	1.12
			0.01	0.0.	
12701	6.84	9.99	15.41	32.66	52.67
12702	7.52	10.89			
12703	6.96	10.16	a	a	a
12704	7.30	10.54	a	a	a
12705	7.56	11.14	a 17.46	35.65	55.69
12706	7.81	11.48			
12707	7.83	11.48	17.06	a 34.60	55.26
12707	7.78	11.53	17.53	35.22	56.12
12709	7.49	10.42			
12/03	7.43	10.42	a	a	a
Mean	7.45	10.80	16.07	24 52	F4 04
			16.87	34.53	54.94
S.D.	0.36	0.56	0.99	1.32	1.55
12801	6.75	11.14		_	
12802	6.76	10.95	a 17.07	33.60	a 56.47
12803	5.58	9.59	15.12	32.04	50.85
12804	6.77	11.25	16.89	34.60	56.87
12805	6.88	10.92	a	a	a
12806	6.39	10.98	17.29	34.41	55.47
	6.50	10.01		33.66	5.4.00
Mean	6.52	10.81	16.59	33.66	54.92
S.D.	0.49	0.61	1.00	1.17	2.77 .
12001	7.22	12.00			
12901	7.31	13.26	a	a	a
12902	7.02	12.09	20.39	42.71	66.03
12903	7.05	12.67	a	a	a
12904	6.83	12.25	20.99	42.99	63.27
12905	7.16	12.97	20.85	42.87	65.39
12906	6.82	12.71	21.12	43.55	64.27
12907	7.12	12.24	a	а	a
12914	6.60	11.88	a	a	a
Mean	6.99	12.51	20.84	43.03	64.74
S.D.	0.23	0.47	0.32	0.37	1.22

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
13001	6.90	12.03	19.56	38.04	59.07
13002	7.29	11.98	19.83-	39.58	64.24
13003	7.36	12.98	a	a	а
13004	7.52	12.83	a	a	a
13005	6.78	11.94	a	a	a
13006	7.14	12.49	a	a	a
13007	7.01	11.14	18.48	37.19	60.81
13008	7.18	11.90	a	a	a
13009	6.88	12.52	20.17	38.53	62.61
Mean	7.12	12.20	19.51	38.34	61.68
S.D.	0.25	0.56	0.73	1.00	2.24
13101	7.45	11.19	18.25	38.58	56.61
13102	6.60	10.62	17.51	39.89	61.34
13103	6.62	10.58	17.29	38.73	58.83
Mean	6.89	10.80	17.68	39.07	58.93
S.D.	0.49	0.34	0.50	0.72	2.37
13201	7.08	11.93	a	a	a
13202	6.70	11.64	18.40	39.91	63.53
13203	6.81	13.06	21.65	44.37	69.83
13204	6.95	12.11	20.17	41.55	67.14
13205	7.13	12.38	20.21	41.59	64.85
13206	7.12	12.03	a	a	a
13207	7.09	12.34	a	a	a
Mean	6.98	12.21	20.11	41.86	66.34
S.D.	0.17	0.45	1.33	1.85	2.77
13301	6.60	10.78	17.04	33.98	53.14
13302	7.19	11.53	18.43	36.78	60.34
13303	6.68	10.81	16.95	33.45	54.40
Mean	6.82	11.04	17.47	34.74	55.96
S.D.	0.32	0.42	0.83	1.79	3.85
13401	6.77	10.36	15.50	29.82	49.02
13402	7.68	11.21	16.60	33.09	52.58
13403	7.48	11.29	17.08	33.06	55.70
Mean	7.31	10.95	16.39	31.99	52.43
S.D.	0.48	0.52	0.81	1.88	3.34

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0

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22502		Day 4	Day 7	Day 14	Day 21
13501	6.95	12.90	19.58	36.85	60.20
13502	6.98	12.37	18.35	34.42	58.96
13503	6.92	12.09	18.14	35.22	60.78
13504	7.12	12.08	18.46	34.88	56.45
Mean	6.99	12.36	18.63	35.34	59.10
S.D.	0.09	0.38	0.65	1.06	1.92
13601	7.08	11.43	17.20	32.80	50.98
13602	7.32	11.93	18.52	33.78	53.83
13603	6.45	10.00	15.02	28.51	42.79
13604	7.56	12.29	a	a	a
13605	6.92	11.93	17.95	32.16	50.63
Mean	7.07	11.52	17.17	31.81	49.56
S.D.	0.42	0.90	1.53	2.30	4.73
13701	6.67	11.02	а	а	a
13702	6.97	11.15	a	a	a
13703	6.58	10.69	a	a	a
13704	6.06	9.39	a	a	a
13705	6.22	10.48	16.89	34.56	48.19
13706	6.73	10.34	16.88	34.12	51.69
13707	6.56	10.65	a	a	a
13708	6.72	10.89	17.47	33.11	48.57
13709	6.68	11.08	17.97	35.20	51.66
13710	7.19	10.62	a	a	a
13712	6.79	11.16	a	a	a
Mean	6.65	10.68	17.30	34.25	50.03
S.D.	0.31	0.51	0.52	0.88	1.91
13801	С	10.63	a	a	a
13802	С	11.55	18.37	34.84	55.59
13803	С	10.81	17.84	33.58	54.84
13804	С	10.89	a	a	a
13805	С	11.22	a	a	a
13806	С	11.41	17.93	32.26	52.84
13807	C	10.98	17.78	34.30	56.19
13808	C	11.41	a	a	a
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Mean		11.11	17.98	33.75	54.87
S.D.		0.33	0.27	1.12	1.46

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
13901	6.90	11.69	18.65	36.39	57.25
13902	6.48	10.86	16.87	34.42	53.54
13903	6.29	10.71	16.82	34.13	54.64
13904	6.79	11.18	17.75	33.86	54.64
13905	6.37	10.92	a	a	а
13906	6.24	10.35	a	a	a
Mean	6.51	10.95	17.52	34.70	55.02
S.D.	0.27	0.45	0.86	1.15	1.58
14001	6.39	10.24	15.16	30.98	47.65
14002	6.52	10.42	15.37	31.91	50.58
14003	6.17	9.73	a	a	a
14004	6.16	9.92	14.88	31.95	49.21
14005	6.15	10.04	а	a	а
14006	6.30	10.27	15.91	32.59	52.89
Mean	6.28	10.10	15.33	31.86	50.08
S.D.	0.15	0.25	0.44	0.66	2.22
14101	7.58	12.29	a	a	a
14102	7.47	11.51	a	a	a
14103	6.82	11.15	a	a	a
14104	7.10	11.81	17.46	37.22	53.57
14105	7.29	12.36	19.66	39.43	56.55
14106	6.92	11.99	a	a	а
14107	7.43	11.71	19.35	40.39	59.42
14108	7.78	12.90	a	a	a
14109	7.35	12.45	19.67	40.31	60.68
14110	6.73	11.18	a	a	a
Mean	7.25	11.94	19.04	39.34	57.56
S.D.	0.34	0.57	1.06	1.48	3.17
14200	5.77	8.89	а	а	a
14201	5.46	8.44	14.54	32.61	49.51
14202	6.05	9.55	а	а	a
14203	5.11	8.10	a	a	a
14204	5.64	9.01	a	a	a
14205	5.49	8.86	a	a	a
14206	5.73	8.99	15.23	33.62	50.46
14207	5.75	9.31	16.36	36.59	54.74
14208	6.19	9.68	16.53	34.79	51.22
14209	5.57	8.90	а	a	a
14210	5.79	9.35	a	a	a
Mean	5.69	9.01	15.67	34.40	51.48
S.D.	0.29	0.46	0.95	1.71	2.28

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
14301	6.81	10.75	16.75	34.27	56.38
14302	6.87	11.18	17.43-	34.82	56.38
14303	5.92	9.91	15.61	32.84	54.39
	6.86	10.06	15.29	32.85	51.96
14304			15.29		31.96
14313	6.81	10.83	a	a	a
Mean	6.65	10.55	16.27	33.70	54.78
S.D.	0.41	0.54	1.00	1.01	2.10
14401	7.32	9.54	14.86	31.02	50.49
14402	6.97	9.16	14.60	30.55	51.22
14403	6.77	9.41	14.64	29.71	48.64
14404	7.11	9.56	14.27	29.52	46.86
14405	6.74	9.49	a	a	a
				-	
Mean	6.98	9.43	14.59	30.20	49.30
S.D.	0.24	0.16	0.24	0.71	1.96
5.2.	0.21	0.10	0.21	0.71	1.50
14501	6.00	10.03	14.74	28.73	38.19
14502	6.00	9.87	14.65	29.55	39.59
14502			15.25	29.55	
	5.90	10.07			41.03
14504	6.21	9.47	14.42	29.13	38.77
Mean	6.03	9.86	14.77	29.28	39.40
S.D.	0.13	0.27	0.35	0.44	1.23
14601	6.28	10.01	16.22	36.23	57.13
14603	6.11	9.82	15.51	35.58	54.96
14604	5.79	9.26	14.98	32.90	48.71
14605	6.65	10.15	16.45	36.72	56.22
14611	6.01	9.69	a	a	a
14616	5.66	9.13	a	a	a
			-		
Mean	6.08	9.68	15.79	35.36	54.26
S.D.	0.36	0.41	0.67	1.70	3.80
14701	5.37	8.67	2	a	
14701	5.90	10.09	a 15.86	32.23	49.63
14702					
	5.57	9.18	14.67	30.42	46.98
14704	5.78	8.82	14.54	31.74	49.66
14705	5.63	7.32	12.21	28.84	42.92
14706	5.35	8.71	a	a	a
14707	6.03	9.29	a	a	a
Mean	5.66	8.87	14.32	30.81	47.30
S.D.	0.26	0.84	1.53	1.52	3.18

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
14801	6.72	11.33	17.33	33.78	53.64
14802	6.47	10.81	a ·	a	a
14803	6.54	10.90	17.57	34.24	56.15
14804	5.88	9.28	14.86	30.42	49.72
14805	6.44	10.90	17.04	33.63	55.47
Mean	6.41	10.64	16.70	33.02	53.75
S.D.	0.32	0.79	1.25	1.75	2.89
14901	6.33	11.69	17.36	30.70	45.46
14902	6.39	11.72	16.40	37.77	57.10
14903	6.21	11.08	17.84	38.93	60.14
Mean	6.31	11.50	17.20	35.80	54.23
S.D.	0.09	0.36	0.73	4.45	7.75
15001	7.03	11.20	16.59	31.93	51.98
15002	6.87	11.65	18.21	35.42	54.05
15003	6.77	11.13	16.86	34.42	54.34
15004	7.45	11.90	18.08	34.03	52.50
15005	6.79	10.81	a	a	a
15015	6.69	11.39	15.83	30.77	47.54
Mean	6.93	11.35	17.11	33.31	52.08
S.D.	0.28	0.39	1.02	1.91	2.73

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
15101	7.56	12.53	20.10	40.10	65.02
15102	7.46	12.22	a	a	a
15103	7.06	12.40	19.94	39.47	62.87
15104	6.92	11.69	18.44	37.60	60.21
15105	7.10	11.87	18.80	37.86	62.27
15106	6.44	11.56	a	a	a
Mean	7.09	12.05	19.32	38.76	62.59
S.D.	0.40	0.40	0.82	1.22	1.98
15201	6.12	9.75	15.55	34.31	56.34
15202	6.28	10.53	a	a	a
15203	6.37	10.43	16.54	35.36	56.63
15204	6.20	10.04	16.19	34.58	53.70
15205	6.93	10.39	a	a	a
15206	6.47	10.56	a	a	a
15207	6.63	10.73	a	a	a
15208	7.02	11.17	18.14	37.53	59.66
Mean	6.50	10.45	16.61	35.45	56.58
S.D.	0.33	0.43	1.10	1.46	2.44
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15301	7.16	11.56	17.66	34.66	54.67
15302	6.87	10.99	16.93	33.43	53.62
15303	6.88	10.55	16.00	33.16	53.56
15304	6.85	10.52	15.87	33.46	51.86
15305	7.30	11.93	a	a	a
Mean	7.01	11.11	16.62	33.68	53.43
S.D.	0.21	0.62	0.84	0.67	1.16
15401	6.56	11 06	17.05	24.40	54.00
15401	6.56	11.06	17.05	34.49	54.89
15402	6.55	10.87	17.09	34.80	57.71
15403	6.04	9.67	a 17.10	a 25.00	a
15404	6.54	10.83	17.18	35.28	55.30
15405	5.98	10.23	16.53	34.27	53.95
15406	6.30	9.90	a	a	a
15407	6.99	10.70	a	a	a
Moan	5 42	10 47	16 96	24 71	55 4 <i>6</i>
Mean	6.42	10.47	16.96	34.71	55.46
S.D.	0.35	0.53	0.29	0.44	1.60

a = Pup culled on day 4

b = Pup missing on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
15501	6.20	9.54	a	a	a
15502	6.45	10.90	17.44	36.42	59.05
15503	6.78	10.07	a	a	a
15504	6.45	10.26	16.18	35.58	61.23
15505	6.23	9.78	16.53	36.49	58.03
15506	6.78	10.57	16.82	36.65	59.68
				4	
Mean	6.48	10.19	16.74	36.29	59.50
S.D.	0.25	0.50	0.53	0.48	1.34
15601	6.07	8.76	14.55	32.48	52.84
15602	6.52	10.20	а	а	а
15603	6.16	9.68	а	а	а
15604	6.35	10.34	17.11	35.00	57.39
15605	7.02	11.11	а	а	а
15606	6.92	10.17	16.87	35.98	57.15
15607	6.39	9.76	16.38	34.70	54.70
15608	6.62	10.00	a	а	a
Mean	6.51	10.00	16.23	34.54	55.52
S.D.	0.34	0.67	1.16	1.48	2.16
15701	7.06	11.09	17.85	35.64	58.73
15702	7.00	10.92	16.82	34.88	56.74
15703	6.26	10.11	a	a	a
15704	6.86	10.61	16.79	33.35	53.48
15705	6.75	10.52	a	a	a
15706	7.12	11.45	18.09	37.43	58.64
Mean	6.84	10.78	17.39	35.33	56.90
S.D.	0.32	0.47	0.68	1.70	2.46
15801	6.40	10.25	15.57	31.85	51.55
15802	5.81	9.54	a	a	a
15803	5.68	8.95	14.67	30.04	48.65
15804	5.82	9.18	14.79	30.80	49.02
15805	5.75	9.56	15.58	31.30	49.22
15806	3.19	b	b _	b	b
15811	5.71	9.41	a	a	a
	2				
Mean	5.48	9.48	15.15	31.00	49.61
S.D.	1.04	0.44	0.49	0.77	1.31

a = Pup culled on day 4

b = Pup missing on day 4

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Pup #	Day 0	Day 4	Day 7:	Day 14	Day 21
16001	6.37	10.05	a	a	а
16002	6.85	10.64	a	a	· a
16003	6.38	10.34	16.25	32.90	49.03
16004	6.58	10.94	17.16	33.34	55.38
16005	6.76	7.32	16.99	33.68	53.99
16006	6.18	9.85	a	a	a
16007	6.06	10.14	15.67	32.76	51.35
Mean	6.45	9.90	16.52	33.17	52.44
S.D.	0.29	1.19	0.69	0.42	2.82
16101	6.42	10.85	16.79	32.00	49.54
16102	5.71	9.07	14.13	28.02	43.41
16103	6.51	10.31	15.86	30.92	48.09
16104	5.81	9.79	15.57	31.31	50.66
16105	6.76	11.05	a	a	a
16106	5.93	10.22	a	a	а
16107	6.01	9.91	a	a	a
Mean	6.16	10.17	15.59	30.56	47.93
S.D.	0.40	0.67	1.10	1.75	3.19
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16202	7.10	12.48	18.91	37.97	56.93
16203	6.69	10.91	17.10	34.32	51.66
16204	6.54	11.37	18.01	34.78	50.72
16205	6.77	12.29	19.42	37.97	58.71
Mean	6.78	11.76	18.36	36.26	54.51
S.D.	0.24	0.75	1.02	1.98	3.92
16301	6.79	10.57	17.00	34.16	53.33
16302	6.44	9.84	a	a	a
16303	6.08	9.49	a	a	a
16304	6.92	11.20	17.22	34.12	53.03
16305	6.69	10.35	16.61	33.16	54.21
16306	5.31	8.34	13.51	30.05	47.47
Mean	6.37	9.97	16.09	32.87	52.01
S.D.	0.60	0.99	1.74	1.94	3.07

a = Pup culled on day 4

b = Pup missing on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
16401	6.46	10.28	a	a	a
16402	6.32	9.11	14.12	32.20	47.07
16403	4.96	b	b	b	b
16404	6.13	9.69	14.96	32.51	49.20
16405	5.97	9.76	a	a	a
16406	6.18	9.29	14.52	32.56	48.21
16407	6.17	9.62	14.62	32.53	48.81
Mean	6.03	9.63	14.56	32.45	48.32
S.D.	0.49	0.41	0.35	0.17	0.93
16501	5.99	9.53	a	a	a
16502	6.09	9.76	14.17	32.18	53.31
16503	6.54	b	b	b	b
16504	5.64	8.53	13.89	32.83	51.86
16505	6.60	10.38	16.26	35.00	57.23
16506	5.89	9.13	a	a	а
16507	5.85	9.32	a	a	a
16508	6.29	10.27	15.81	34.22	56.62
Mean	6.11	9.56	15.03	33.56	54.76
S.D.	0.34	0.65	1.18	1.28	2.59
16601	5.58	9.06	14.77	31.66	49.61
16602	5.75	9.44	15.41	32.56	51.02
16603	5.71	9.34	a	a	a
16604	5.64	9.16	14.76	31.03	50.53
16605	5.48	9.12	14.65	31.33	48.70
Mean	5.63	9.22	14.90	31.65	49.97
S.D.	0.11	0.16	0.35	0.66	1.03
16701	5.13	8.91	13.84	31.31	47.01
16702	5.86	9.84	15.58	32.66	50.12
16703	6.08	10.49	16.78	35.10	54.01
16704	5.75	9.84	15.55	33.39	48.21
16705	5.65	9.91	a	a	а
16706	5.94	10.06	a	a	a
				~	, and
Mean	5.74	9.84	15.44	33.12	49.84
S.D.	0.33	0.52	1.21	1.58	3.06

a = Pup culled on day 4

b = Pup missing on day 4

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
16801	6.58	9.55	15.66	33.92	52.53
16802	6.46	9.75	a	a	a
16803	6.66	9.82	а	а	a
16804	6.19	9.14	а	а	a
16805	6.61	10.18	16.48	34.32	53.29
16806	6.11	9.83	а	a	а
16807	6.43	9.52	15.45	33.26	52.80
16808	6.13	9.14	a	a	a
16809	6.12	9.50	15.76	33.46	52.35
Mean	6.37	9.60	15.84	33.74	52.74
S.D.	0.23	0.34	0.45	0.48	0.41
16901	6.15	10.50	15.84	31.40	48.23
16902	6.08	10.22	15.28	31.48	48.23
16903	6.14	10.68	15.08	33.51	51.77
16904	5.74	10.03	а	а	a
16905	5.69	9.68	14.96	31.17	47.90
Mean	5.96	10.22	15.29	31.89	49.03
S.D.	0.23	0.39	0.39	1.09	1.83
17001	6.26	8.98	a	а	a
17002	6.25	8.97	a	а	a
17003	5.95	9.15	а	a	a
17004	5.78	9.46	16.07	34.77	57.66
17005	5.75	8.05	13.24	31.84	51.88
17006	6.04	8.98	14.46	33.47	54.87
17007	6.34	10.31	16.45	35.63	58.78
Mean	6.05	9.13	15.06	33.93	55.80
S.D.	0.24	0.68	1.49	1.65	3.09
17101	6.57	10.46	а	а	а
17102	6.87	10.59	16.17	32.32	51.91
17103	6.51	10.19	а	а	a
17104	6.09	9.78	15.46	31.77	51.29
17105	6.57	10.71	16.64	34.06	55.35
17106	6.27	10.08	15.87	33.15	53.39
				1	
Mean	6.48	10.30	16.04	32.83	52.99
S.D.	0.27	0.35	0.50	1.00	1.81

a = Pup culled on day 4

b = Pup missing on day 4

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
17201	5.78	7.93	a	a	a
17202	5.60	7.79	a	a	a
17203	6.43	8.95	13.98	31.89	48.65
17204	5.78	8.33	a	a	a
17205	5.21	7.11	a	a	a
17206	5.97	8.26	12.53	29.20	46.33
17207	6.14	8.47	13.38	31.11	48.62
17208	5.88	7.78	12.13	28.63	43.00
17209	5.41	7.84	a	a	a
Mean	5.80	8.05	13.01	30.21	46.65
S.D.	0.37	0.52	0.83	1.54	2.66
17301	6.91	b	b	b	b
17302	7.94	12.97	a	a	a
17303	7.56	12.97	21.09	40.10	61.93
17304	7.94	12.86	20.88	40.42	63.05
17305	7.81	13.11	21.30	40.66	60.73
17306	8.18	13.28	a	a	a
17307	8.02	13.25	21.28	41.95	60.76
17308	8.13	11.86	a	а	a
Mean	7.81	12.90	21.14	40.78	61.62
S.D.	0.41	0.48	0.20	0.81	1.11
17401	6.82	11.51	18.40	38.58	61.62
17402	6.92	11.92	19.35	40.56	64.64
17403	7.39	11.83	18.85	39.38	62.98
17404	6.94	11.64	a	a	a
17405	7.24	11.73	a	a	a
17406	7.16	12.08	19.01	38.51	60.91
Mean	7.08	11.79	18.90	39.26	62.54
S.D.	0.22	0.20	0.39	0.95	1.64
				20.2.2	
17501	6.46	9.09	14.61	30.16	46.76
17502	6.69	9.48	15.01	30.13	47.98
17503	6.84	9.86	a	a	a
17504	6.81	9.01	13.63	29.53	45.71
17505	6.60	8.42	13.24	28.25	43.45
					45.55
Mean	6.68	9.17	14.12	29.52	45.98
S.D.	0.16	0.54	0.83	0.89	1.92

a = Pup culled on day 4

b = Pup missing on day 4

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
17601	6.51	11.53	17.56	33.82	52.44
17602	6.11	10.73	16.72	32.76	50.19
17603	6.34	10.83	16.88	32.30	50.36
17604	6.10	10.96	17.03	32.25	53.18
17605	6.49	11.05	a	a	a
17613	6.45	11.52	a	a	a
Mean	6.33	11.10	17.05	32.78	51.54
S.D.	0.19	0.34	0.36	0.73	1.50
17701	6.04	9.59	14.26	27.43	48.08
17702	6.54	10.31	15.67	28.62	48.98
17703	6.22	9.26	15.12	29.04	49.13
17704	6.07	9.73	14.49	26.84	45.96
Mean	6.22	9.72	14.89	27.98	48.04
S.D.	0.23	0.44	0.64	1.02	1.46
17801	6.49	10.41	16.00	28.98	48.42
17802	7.07	10.29	15.39	26.98	45.49
17803	6.27	9.45	15.12	26.98	45.50

Mean	6.61	10.05	15.50	27.65	46.47
S.D.	0.41	0.52	0.45	1.15	1.69
17901	6.91	10.68	16.48	32.58	54.98
17902	6.61	10.21	15.57	32.11	53.09
17903	5.95	9.74	15.12	31.82	51.71
17904	6.48	10.34	a	a	a
17905	6.49	10.46	16.17	33.21	52.35
17906	6.68	10.38	a	a	a
17907	6.30	9.59	a	a	a
17908	6.33	9.74	a	a	a
Mean	6.47	10.14	15.84	32.43	53.03
S.D.	0.29	0.40	0.61	0.61	1.42
18001	5.86	8.85	13.81	26.86	45.59
18002	6.04	9.09	a	a	a
18003	6.16	9.40	a	a	a
18004	5.69	8.63	13.43	25.11	42.68
18005	5.82	9.22	a	a	a
18006	6.28	9.23	14.12	26.59	43.21
18007	5.94	9.09	13.71	25.50	42.07
Mean	5.98	9.07	13.79	26.19	43.83
S.D.	0.22	0.28	0.35	0.94	1.55

a = Pup culled on day 4

b = Pup missing on day 4

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
18101	6.94	10.29	15.63	30.00	49.51
18102	7.00	10.40	15.50	30.19	51.15
18103	6.09	10.08	15.01	30.11	50.07
18104	6.82	10.38	15.46	29.79	48.89
	44.0				
Mean	6.71	10.29	15.40	30.02	49.90
S.D.	0.42	0.15	0.27	0.17	0.96
18201	6.30	9.49	13.81	28.34	46.22
18202	6.16	9.56	13.88	29.13	48.12
18203	6.40	9.89	14.53	29.36	48.57
18204	6.23	9.46	13.99	28.50	48.67
Mean	6.27	9.60	14.05	28.83	47.90
S.D.	0.10	0.20	0.33	0.49	1.14
18301	5.94	9.85	16.58	34.05	55.01
18302	6.82	10.72	a	a	a
18303	6.52	10.89	17.22	34.61	55.11
18304	6.48	9.28	a	a	a
18305	7.01	10.25	17.58	35.49	57.49
18306	6.72	10.98	18.10	35.96	57.93
Mean	6.58	10.33	17.37	35.03	56.39
S.D.	0.37	0.67	0.64	0.86	1.54
18401	6.06	9.77	a	a	a
18402	6.35	9.92	a	a	a
18403	6.40	9.24	13.84	26.33	45.92
18404	6.26	9.87	12.74	26.84	44.32
18405	5.88	9.25	14.06	28.23	46.96
18406	5.78	9.46	14.07	28.80	47.28
18407	6.27	9.95	a	a	a
Mean	6.14	9.64	13.68	27.55	46.12
S.D.	0.24	0.31	0.63	1.16	1.33
18501	7.03	10.41	15.13	28.14	51.38
18502	6.53	10.85	15.94	29.16	48.33
18503	7.38	11.73	17.13	31.13	52.80
18505	6.59	10.54	16.15	30.16	50.35
18514	6.79	10.48	a	a	a
Mean	6.86	10.80	16.09	29.65	50.72
S.D.	0.35	0.55	0.82	1.29	1.88

a = Pup culled on day 4

b = Pup missing on day 4

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
18601	6.35	9.51	14.94	28.35	43.73
18602	6.45	9.66	a	a	a
18603	5.89	8.97	13.96	27.46	42.30
18604	5.85	9.29	14.19	28.68	44.05
18605	5.60	8.91	12.95	25.42	38.02
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Mean	6.03	9.27	14.01	27.48	42.03
S.D.	0.36	0.33	0.82	1.47	2.78
18701	6.66	10.30	a	a	a
18702	6.70	10.72	16.33	29.99	48.56
18703	6.61	10.49	15.48	28.91	50.40
18704	6.97	11.06	a	a	a
18705	6.31	10.22	15.52	28.13	44.43
18706	6.69	10.62	15.81	29.36	46.77
Mean	6.66	10.57	15.79	29.10	47.54
S.D.	0.21	0.31	0.39	0.78	2.55
18801	7.21	10.67	a	a	a
18802	6.48	10.44	16.85	31.92	53.86
18803	7.25	10.29	16.71	31.08	50.03
18804	5.94	9.00	a	a	a
18805	6.46	9.55	a	a	a
18806	6.54	9.94	a	a	a
18807	6.29	9.99	15.75	32.05	49.59
18808	6.86	10.48	16.27	31.93	51.82
Mean	6.63	10.05	16.40	31.75	51.33
S.D.	0.45	0.55	0.50	0.45	1.95
18901	5.33	7.80	a	a	a
18902	4.97	7.28	11.40	23.42	34.23
18903	5.11	7.72	a	a	a
18904	5.01	7.82	12.20	27.26	43.85
18905	5.16	7.50	a	a	a
18906	5.49	7.64	a	a	a
18907	5.16	7.90	12.29	24.93	40.27
18908	5.26	8.10	12.85	27.02	42.87
18909	4.84	6.56	a	a	a
Mean	5.15	7.59	12.19	25.66	40.31
S.D.	0.20	0.45	0.60	1.82	4.32

a = Pup culled on day 4

b = Pup missing on day 4

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
19001	6.07	7.75	11.97	25.30	42.68
19002	6.09	7.32	11.13	24.38	41.61
19003	5.44	b	b	b	b
19004	5.86	7.52	11.99	26.61	42.96
Mann	5.07	7 53	77.70	25 42	42.42
Mean	5.87	7.53	11.70	25.43	42.42
S.D.	0.30	0.22	0.49	1.12	0.71
19101	6.42	9.93	a	a	a
19102	6.18	10.15	14.74	29.94	47.79
19103	5.89	9.66	a	a	a
19104	6.12	9.17	14.51	28.97	43.78
19105	6.23	10.22	a	a	a
19106	5.26	9.82	15.30	30.61	49.13
19107	6.10	10.02	15.38	30.74	48.18
Mean	6.03	9.85	14.98	30.07	47.22
S.D.	0.37	0.36	0.42	0.81	2.36
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19201	5.90	9.10	12.16	24.65	41.28
19202	5.86	8.26	11.57	23.81	37.91
19203	4.16	b	b	b	b
19204	5.47	8.43	11.68	24.27	40.34
19205	5.96	8.59	12.35	25.57	41.56
19206	5.62	8.25	a	a	a
19207	5.62	8.63	a	a	a
19208	5.82	8.40	a	a	a
Mean	5.55	8.52	11.94	24.58	40.27
S.D.	0.59	0.29	0.37	0.75	1.66
3.0.	0.59	0.29	0.37	0.75	1.00
19301	5.85	8.82	14.03	30.18	45.82
19302	5.96	8.31	a	a	a
19303	5.14	7.81	12.78	27.74	43.54
19304	5.59	7.88	12.63	28.23	41.99
19306	5.39	7.66	12.50	27.52	41.42
19307	5.78	b	b	b	b
Moss	F 63	0.10	12.00	20 42	42.10
Mean	5.62	8.10	12.99	28.42	43.19
S.D.	0.31	0.47	0.71	1.21	1.97

a = Pup culled on day 4

b = Pup missing on day 4

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
19401	5.88	8.74	13.80	31.01	50.90
19402	6.52	9.27	14.98-	32.69	55.18
19403	6.07	9.07	14.89	32.14	51.73
19404	6.20	9.24	14.11	30.19	49.80
19406	6.21	b	b	b	b
Mean	6.18	9.08	14.45	31.51	51.90
S.D.	0.23	0.24	0.58	1.12	2.32
19501	6.14	8.69	14.20	28.61	45.21
19502	5.91	8.63	13.35	27.82	43.76
19503	6.26	9.22	14.16	28.97	45.73
19504	6.27	9.04	a	a	a
19505	6.53	9.31	a	a	a
19506	5.99	9.09	14.92	30.57	47.28
19507	6.25	9.04	a	a	a
Mean	6.19	9.00	14.16	28.99	45.50
S.D.	0.20	0.25	0.64	1.16	1.45
19601	6.17	9.23	a	а	a
19602	6.45	9.72	14.56	26.07	44.69
19603	5.65	8.90	a	a	а
19604	5.97	9.41	14.15	25.44	44.83
19605	5.08	. 8.04	12.50	24.07	40.57
19606	5.73	8.80	13.01	24.73	42.39
Mean	5.84	9.02	13.56	25.08	43.12
S.D.	0.47	0.58	0.96	0.87	2.04
19701	6.46	8.51	12.78	25.81	41.51
19702	6.61	8.97	13.45	26.28	43.17
19703	6.13	7.57	11.56	24.87	38.62
19704	5.83	7.92	12.22	24.53	38.88
19705	6.42	8.71	a	a	a
Mean	6.29	8.34	12.50	25.37	40.55
S.D.	0.31	0.58	0.80	0.81	2.18

a = Pup culled on day 4

b = Pup missing on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
19801	6.59	9.27	14.75	27.41	45.06
19802	6.81	9.97	15.84-	28.79	47.40
19803	6.17	9.46	a	a	a
19804	7.04	10.10	a	a	a
19805	7.11	10.40	16.04	29.12	47.94
19806	6.75	10.21	a	a	a
19807	6.91	10.10	a	a	a
19808	7.27	10.48	16.10	29.33	48.75
	5.00	10.00	1.7.60	00.66	15.00
Mean	6.83	10.00	15.68	28.66	47.29
S.D.	0.34	0.43	0.63	0.86	1.59
19901	4.95	7.01	10.90	23.60	37.80
19902	5.17	6.75	9.98	22.92	35.92
19903	5.55	7.51	11.31	25.24	40.69
19904	5.12	7.33	a	a	a
19905	5.56	7.50	11.51	24.85	39.67
19913	5.20	6.95	a	a	a
	5.06	7.10	10.00	24.15	20.50
Mean	5.26	7.18	10.93	24.15	38.52
S.D.	0.25	0.32	0.68	1.08	2.11
20001	6.58	10.08	a	a	a
20002	6.38	9.22	15.27	30.52	51.90
20003	6.95	11.28	a	a	a
20004	6.82	10.05	15.44	30.43	51.06
20005	6.41	9.50	14.83	30.70	50.52
20006	6.31	9.88	a	a	a
20007	6.14	9.56	a	a	a
20008	6.04	9.35	15.14	30.59	50.11
Mean	6.45	9.87	15.17	30.56	50.90
S.D.	0.45	0.65	0.26	0.11	0.77
3.0.	1 0.31	0.05	0.20	0.11	0.77

a = Pup culled on day 4

b = Pup missing on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
10111	6.56	10.47	а	a	a
10112	6.32	11.01	17.10	33.50	55.35
10113	6.56	11.44	17.93	33.14	57.55
10114	6.61	11.33	a	a	a
10115	6.77	11.51	17.80	35.32	55.82
10116	6.58	10.81	a	a	a
10117	6.47	11.01	17.44	34.97	54.43
Mean	6.55	11.08	17.57	34.23	55.79
S.D.	0.14	0.37	0.37	1.07	1.31
10214	6.00	10.49	16.53	33.24	55.23
10215	6.96	11.52	17.15	34.43	55.25
10216	6.35	10.58	a	a	a
10217	6.03	10.24	15.83	33.52	57.13
10218	6.22	10.25	15.83	33.56	53.84
10219	6.36	10.94	a	а	a
Mean	6.32	10.67	16.34	33.69	55.36
S.D.	0.35	0.49	0.64	0.52	1.35
10311	6.51	11.55	a	a	a
10312	6.17	10.02	17.09	36.45	56.19
10313	6.42	11.05	18.22	37.15	58.72
10314	6.54	b	b	b	b
10315	6.17	10.89	18.03	37.17	56.83
10316	6.65	11.04	a	a	a
10317	6.10	10.53	a	a	a
10318	6.12	10.75	18.32	38.23	58.83
Mean	6.34	10.83	17.92	37.25	57.64
S.D.	0.22	0.48	0.56	0.73	1.33
10411	6.56	11.20	16.91	37.17	54.84
10412	6.95	12.23	19.07	39.31	58.72
10413	6.64	11.21	17.26	35.30	54.09
10414	6.46	11.01	a	a	a
10415	6.53	11.43	17.54	35.64	55.11
			15.50	25.25	
Mean	6.63	11.42	17.70	36.86	55.69
S.D.	0.19	0.48	0.95	1.83	2.07
10511	7.06	10.78	17.66	36.76	55.44
10512	6.39	10.30	16.73	34.66	52.92
10513	6.34	9.78	16.50	34.26	50.53
Mean	6.60	10.29	16.96	35.23	52.96
S.D.	0.40	0.50	0.61	1.34	2.46

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
10611	5.95	10.19	16.36	34.85	52.70
10612	5.74	10.44	a ·	a	a
10613	5.55	10.42	a	a	a
10614	6.38	11.49	18.03	37.16	59.37
10615	4.91	9.72	15.44	33.43	51.60
10616	5.79	10.82	17.69	36.94	58.16
Mean	5.72	10.51	16.88	35.60	55.46
S.D.	0.49	0.60	1.20	1.78	3.88
	-				
10711	6.60	12.20	17.81	36.68	54.87
10712	6.61	12.67	17.92	35.51	54.26
10713	5.87	10.95	16.64	34.86	52.01
10714	6.79	12.26	17.99	34.81	55.38
10714	0.75	12.20	17.55	34.01	33.30
Mean	6.47	12.02	17.59	35.47	54.13
S.D.	0.41	0.74	0.64	0.87	1.49
5.0.	0.41	0.74	0.64	0.87	1.49
10011	7.00	14 45		34.00	50.00
10811	7.22	11.47	17.44	34.20	59.29
10812	6.71	11.08	a	a 24.50	a
10813	7.17	11.57	17.80	34.50	56.92
10814	6.77	11.51	a	a	a
10815	6.91	11.34	17.51	34.15	55.73
10816	6.18	10.71	16.37	32.36	52.15
Mean	6.83	11.28	17.28	33.80	56.02
S.D.	0.38	0.33	0.63	0.97	2.98
10911	6.59	11.15	17.76	34.71	52.69
Mean	6.59	11.15	17.76	34.71	52.69
S.D.	0.00	0.00	0.00	0.00	0.00
11011	6.73	10.88	17.71	35.88	54.51
11012	6.08	9.27	16.00	33.88	51.26
11013	6.15	10.40			
11014	7.03	11.10	18.10	35.73	55.30
11015	6.72	9.61	16.31	34.49	53.65
11016	6.74	11.55			
	0.73	12.55	a	a	a
Mean	6.58	10.47	17.03	35.00	53.68
S.D.	0.38	0.88	1.03	0.97	1.75
3.0.	0.30	0.00	1.03	0.77	1.75

a = Pup culled on day 4

b = Pup missing on day 4

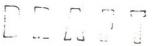
c = Pup inadvertently culled on day 4

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
11111	7.16	11.82	18.35	35.85	56.46
11112	5.87	11.18	a	a	a
11113	6.52	9.74	15.29	30.32	46.09
11114	7.63	12.50			
11115	6.85	11.50	a	a	a
11116	6.80	11.45	a 17.51	33.73	53.35
			17.51		
11117	7.21	11.94	17.63	32.33	50.50
	4.04		1		
Mean	6.86	11.45	17.20	33.06	51.60
S.D.	0.56	0.86	1.32	2.33	4.41
11211 '	6.40	10.28	16.73	35.04	54.32
11212	6.23	8.58	13.28	30.09	48.16
11213	6.24	10.58	17.46	34.54	54.47
Mean	6.29	9.81	15.82	33.22	52.32
S.D.	0.10	1.08	2.23	2.73	3.60
11311	6.03	10.44	17.64	35.13	55.73
11312	5.87	9.77	16.46	33.93	54.85
11314	6.22	10.49	a	a	a
11315	5.72	9.93	16.13	32.38	53.59
11316	6.11	10.55	17.00	33.74	55.42
11310	0.11	10.55	17.00	33.74	33.42
Mean	5.99	10.24	16.81	33.80	54.90
S.D.	0.20	0.36	0.66	1.13	0.94
11411	5.63	8.86	14.39	32.34	50.19
11412	5.59	8.48	14.40	32.53	51.61
11413	6.16	9.68	16.14	34.84	57.00
11414	5.83	8.92	15.19	33.68	52.69
11414	3.63	8.32	13.19	33.00	32.63
Mean	5.80	8.99	15.03	33.35	52.87
S.D.	0.26	0.50	0.83	1.16	2.94
3.0.	0.26	0.30	0.63	1.10	2.34
11511	5.85	8.52	14.26	29.83	46.51
11512	5.39	8.91	a	a	a
11513	5.71	8.91	14.15	29.49	44.92
11514	5.55	8.69	13.66	28.71	42.83
11515	5.62	8.79	a	a	a
11516	5.46	7.99	a	a	a
11517	5.72	9.04	a	a	a
11518	5.62	8.85	a	a	a
11519	5.18	8.59	14.24	29.95	45.60
11504	5.85	8.64	a	a	a
Mean	5.60	8.69	14.08	29.50	44.97
S.D.	0.21	0.30	0.28	0.56	1.57

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
11611	6.29	10.78	17.09	34.28	56.23
11612	6.55	11.30	17.59-	35.29	52.52
11613	6.68	11.23	a	a	a
11614	6.29	10.60	a	a	a
11615	6.82	11.39	17.77	33.03	52.14
11616	7.05	11.91	18.38	36.58	56.51
				4	
Mean	6.61	11.20	17.71	34.80	54.35
S.D.	0.30	0.47	0.53	1.51	2.34
11711	6.23	10.68	17.53	37.21	55.70
11712	6.21	8.29	14.52	33.88	52.94
Mean	6.22	9.49	16.03	35.55	54.32
S.D.	0.01	1.69	2.13	2.35	1.95
11811	6.44	11.64	17.74	39.36	59.61
11812	5.84	9.77	15.00	35.97	57.08
11813	5.87	11.04	16.91	37.01	56.34
11814	5.71	10.37	15.78	35.84	55.56
Mean	5.97	10.71	16.36	37.05	57.15
S.D.	0.32	0.81	1.21	1.63	1.76
11911	7.01	10.80	17.34	35.98	53.29
11912	6.11	9.94	a	a	a
11913	6.91	10.71	17.20	35.43	52.78
11914	6.99	10.95	17.58	36.04	55.48
11915	7.30	11.34	18.54	36.97	57.79
11916	7.26	11.83	a	a	a
11917	6.97	11.16	a	a	a
Mean	6.94	10.96	17.67	36.11	54.84
S.D.	0.39	0.59	0.60	0.64	2.29
12011	5.40	7.69	a	a	a
12012	5.78	8.62	13.52	29.21	47.06
12013	5.69	8.86	13.86	28.64	45.49
12014	5.37	8.26	a	a	a
12015	6.09	9.52	14.43	29.28	46.38
12016	6.07	9.86	15.31	31.30	50.95
12017	6.18	9.57	a	_ a	a
Mean	5.80	8.91	14.28	29.61	47.47
S.D.	0.33	0.79	0.78	1.16	2.41

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4

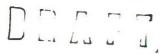


Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
12111	6.90	9.70	15.40	32.92	50.65
12112	5.98	10.16	a ·	а	a
12113	6.00	9.76	15.80	32.68	50.88
12114	6.34	9.47	16.31	33.59	51.81
12115	6.55	9.27	а	a	а
12116	5.94	10.12	a	a	a
12117	5.46	8.85	13.96	30.67	47.02
	6.15	2.60	15.25		50.00
Mean	6.17	9.62	15.37	32.47	50.09
S.D.	0.47	0.47	1.01	1.26	2.11
12211	5.70	8.73	13.31	28.55	44.64
12212	5.89	8.91	13.43	30.66	46.13
12213	6.15	9.50	14.04	32.05	51.00
12213	0.13	9.30	14.04	32.03	31.00
Mean	5.91	9.05	13.59	30.42	47.26
S.D.	0.23	0.40	0.39	1.76	3.33
12311	6.11	9.75	15.94	33.35	49.77
12312	5.97	9.86	16.14	33.06	48.75
12313	5.80	9.25	15.46	32.62	48.46
12314	5.78	9.00	14.70	31.41	47.39
Mean	5.92	9.47	15.56	32.61	48.59
S.D.	0.16	0.41	0.64	0.85	0.98
12411	4.88	6.72	11.91	29.10	42.90
12412	5.39	b	b	b	b
12413	5.34	7.04	12.17	29.22	42.03
12415	5.45	7.73	13.64	31.67	46.12
12416	5.24	8.07	13.76	29.82	44.68
Mean	5.26	7.39	12.87	29.95	43.93
S.D.	0.23	0.62	0.97	1.19	1.83
12511	6.21	9.80	17.12	36.44	58.74
12511	6.15	9.98			
12512	6.15	10.13	a	a	a
12514	6.28	10.13	a	a	a
12516	6.19	9.78	a	a	a
12517	6.56	10.72	a	a	a
12518	4.79	8.42	14.78	33.45	49.94
12519	6.29	10.05	17.52	38.03	56.20
12520	6.69	10.74	18.43	37.44	55.71
12521	6.56	10.60	-	a	
			a	a	a
Mean	6.19	10.06	16.96	36.34	55.15
S.D.	0.53	0.68	1.55	2.04	3.72

a = Pup culled on day 4

b = Pup missing on day 4

c = Pup inadvertently culled on day 4



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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
12611	7.16	11.28	17.99	37.65	59.18
12612	7.06	11.80	18.53	38.19	57.56
Mean	7.11	11.54	18.26	37.92	58.37
S.D.	0.07	0.37	0.38	0.38	1.15
12711	6.59	9.42	14.76	31.12	48.94
12712	7.28	10.04	15.82	32.51	48.63
12713	6.82	10.16	a	a	a
12714	6.90	10.36	a	a	a
12715	6.53	9.63	15.04	31.56	49.59
12716	6.66	9.85	15.58	32.82	51.30
Mean	6.80	9.91	15.30	32.00	49.62
S.D.	0.27	0.35	0.49	0.80	1.19
12011	6.34	10.64	16.53	22.00	52.22
12811	6.34	10.64	16.53	32.90	53.33
12812	6.75	11.35	a	a	a
12813	6.43	11.16	17.53	33.56	55.97
12814	6.51	10.54	16.20	31.79	51.22
12815	6.51	10.94	16.85	34.26	53.88
Mean	6.51	10.93	16.78	33.13	53.60
S.D.	0.15	0.34	0.57	1.05	1.95
3.0.	0.13	0,54	0.37	1.05	1.33
12911	6.85	11.89	19.72	40.33	60.36
12912	6.76	11.39	19.10	40.71	60.38
12913	6.64	11.15	18.61	38.50	55.13
Mean	6.75	11.48	19.14	39.85	58.62
S.D.	0.11	0.38	0.56	1.18	3.03
13011	6.55	11.54	18.53	37.70	58.28
13012	7.37	12.04	19.88	38.57	60.50
13013	6.95	11.49	18.82	38.47	62.74
13014	6.66	11.49	18.32	36.92	59.59
	6.00			25 00	
Mean	6.88	11.64	18.89	37.92	60.28
S.D.	0.37	0.27	0.69	0.77	1.88

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
13111	6.87	10.83	a	a	a
13112	7.12	11.09	a ·	a	a
13113	6.67	10.85	17.31	37.04	55.72
13114	6.58	10.67	17.51	37.97	56.28
13115	6.20	10.04	16.56	37.22	56.29
13116	6.46	10.30	a	a	a
13117	6.29	10.82	a	a	a
13118	6.39	10.50	a	a	a
13119	6.30	10.12	16.59	36.96	55.29
Mean	6.54	10.58	16.99	37.30	55.90
S.D.	0.30	0.36	0.49	0.46	0.48
13211	7.17	12.77	20.54	41.28	65.67
13212	6.78	12.17	20.28	41.65	63.76
13213	6.49	11.48	19.03	40.62	63.22
Mean	6.81	12.14	19.95	41.18	64.22
S.D.	0.34	0.65	0.81	0.52	1.29
13311	6.34	10.58	16.81	33.73	52.07
13312	6.47	10.57	a	a	a
13313	6.70	11.06	a	a	a
13314	6.33	10.96	_ a	a	a
13315	6.23	10.35	16.68	35.24	53.58
13316	6.52	11.05	a	a	a
13317	6.42	10.77	17.05	35.21	56.65
13318	5.37	9.38	14.95	31.58	50.54
Mean	6.30	10.59	16.37	33.94	53.21
S.D.	0.40	0.55	0.96	1.72	2.61
13411	7.37	11.15	a	a	a
13412	6.03	9.51	15.29	31.08	50.48
13413	6.84	10.04	15.46	30.57	51.83
13414	6.73	10.51	15.45	28.52	49.38
13415	6.99	10.70	a	a	a
13416	7.20	10.63	a	a	a
13417	6.79	12.29	15.54	30.07	53.81
13418	6.75	9.67	a	a	a
Mean	6.84	10.56	15.44	30.06	51.38
S.D.	0.40	0.89	0.10	1.11	1.91

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
13511	6.86	12.44	a ·	a_	a
13512	6.75	11.65	17.67	35.23	56.16
13513	6.46	11.78	17.51	34.67	54.93
13514	6.51	12.09	17.87	34.11	54.72
13515	6.88	11.53	17.72	33.70	54.84
Mean	6.69	11.90	17.69	34.43	55.16
S.D.	0.20	0.37	0.15	0.67	0.67
13611	6.90	11.40	a	a	a
13612	7.06	11.99	18.47	34.51	54.95
13613	7.64	12.38	17.88	32.99	51.85
13614	7.14	11.85	17.12	32.21	48.81
13615	7.22	11.45	18.39	34.10	54.49
13616	7.34	12.14	a	a	a
Mean	7.22	11.87	17.97	33.45	52.53
S.D.	0.26	0.39	0.62	1.05	2.83
13711	6.00	9.78	15.53	32.04	44.50
13713	6.64	11.01	17.39	34.04	56.14
Mean	6.32	10.40	16.46	33.04	50.32
S.D.	0.45	0.87	1.32	1.41	8.23
13811	С	10.21	16.46	31.49	50.52
13812	С	10.79	17.29	33.95	55.80
13813	С	9.51	a	a	a
13814	С	9.57	15.60	31.07	49.87
13815	С	10.28	16.24	31.92	55.10
Mean		10.07	16.40	32.11	52.82
S.D.		0.54	0.70	1.28	3.06
13911	6.53	11.44	17.78	35.96	55.48
13912	6.10	10.70	16.80	33.32	51.92
13913	6.43	11.02	17.25	34.14	52.17
13914	6.10	10.47	a	а	a
13915	6.54	10.81	a	a	a
13916	6.04	8.98	14.60	29.87	48.42
Mean	6.29	10.57	16.61	33.32	52.00
S.D.	0.23	0.85	1.40	2.55	2.88

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
14011	5.93	9.25	14.80	31.73	48.71
14012	5.60	8.96	13.56	29.78	44.62
14013	6.39	9.93	a	a	a
14014	5.90	9.59	14.66	29.80	46.86
14015	5.93	9.04	13.94	29.84	45.82
Mean	5.95	9.35	14.24	30.29	46.50
S.D.	0.28	0.40	0.59	0.96	1.73
14111	6.39	10.44	16.27	34.14	51.33
14112	5.92	9.61	15.81	35.09	51.00
Mean	6.16	10.03	16.04	34.62	51.17
S.D.	0.33	0.59	0.33	0.67	0.23
14211	5.92	9.64	16.44	35.81	52.21
14212	5.43	8.32	13.84	30.92	46.41
14213	5.45	8.74	14.91	33.40	49.24
Mean	5.60	8.90	15.06	33.38	49.29
S.D.	0.28	0.67	1.31	2.45	2.90
14311	6.51	9.49	a	a	a
14312	6.40	9.75	a	a	a
14314	6.41	9.96	15.20	31.42	49.98
14315	6.01	9.71	15.16	31.13	49.38
14316	6.34	10.41	16.34	32.34	51.57
14317	5.50	8.56	13.80	29.86	46.89
1151	3.30	0.30	13.00	23.00	10.05
Mean	6.20	9.65	15.13	31.19	49.46
S.D.	0.38	0.62	1.04	1.02	1.94
0.2.	0.00	0.02		2.02	
14411	6.54	8.43	2	a	2
14412	6.32	8.66	13.55	28.44	49.72
14413	6.46	9.17	a		a
14414	6.14	8.01	12.53	27.30	42.54
14415	6.49	9.55			
14416	6.73	8.85	14.33	28.87	48.33
77770	1 0.75				46.59
	6 24	8 94			
14417	6.24	8.94	13.51 h	28.20	
14417	6.30	b	b	b	b
14417					
14417	6.30	b	b	b	b

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
14511	5.53	9.03	13.76	26.66	37.04
14512	6.11	8.42	13.20-	27.12	35.96
14513	5.71	8.99	а	a	a
14514	5.43	8.67	13.55	26.68	36.18
14515	5.74	9.03	a	a	a
14516	5.66	9.12	13.70	28.15	38.76
14517	5.47	9.05	a	a	a
Mean	5.66	8.90	13.55	27.15	36.99
S.D.	0.23	0.26	0.25	0.70	1.27
14611	6.01	9.69	a	a	a
14612	5.96	9.66	15.54	35.93	52.32
14613	6.00	9.58	15.36	33.16	51.11
14614	6.28	8.16	13.39	32.23	47.02
14615	5.81	8.88	14.57	33.12	50.91
14602	6.16	9.63	a	a	a
Mean	6.04	9.27	14.72	33.61	50.34
S.D.	0.16	0.62	0.98	1.61	2.30
14711	4.87	7.96	a	a	a
14712	4.87	8.38	13.83	30.39	47.73
14713	5.14	8.20	13.23	28.88	43.51
14714	5.30	8.35	14.36	30.49	45.10
14715	5.13	7.82	12.74	28.74	42.25
14716	5.19	8.15	a	a	a
14717	5.48	9.42	a	a	a
Mean	5.14	8.33	13.54	29.63	44.65
S.D.	0.22	0.52	0.71	0.94	2.36
14811	5.82	8.87	14.87	30.14	49.29
14812	5.89	9.91	15.88	32.14	52.49
14813	6.78	10.86	17.29	34.35	54.59
14814	5.75	9.65	a	a	a
14815	6.25	10.55	a	a	a
14816	5.92	10.61	17.28	32.91	50.84
Mean	6.07	10.08	16.33	32.39	51.80
S.D.	0.39	0.75	1.18	1.75	2.27

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
14911	6.62	11.70	a	а	a
14912	5.98	11.27	15.28	31.56	47.94
14913	6.41	11.07	17.72	35.26	55.49
14914	5.90	10.90	16.74	34.93	52.79
14915	6.00	10.86	a	а	а
14916	5.92	10.07	12.52	27.51	42.00
14917	6.08	b	b	, b	b
Mean	6.13	10.98	15.57	32.32	49.56
S.D.	0.28	0.54	2.26	3.61	5.93
15011	6.54	10.65	15.87	31.20	46.92
15012	6.44	b	b	b	b
15013	6.27	10.37	15.99	31.37	48.87
15014	5.75	9.49	14.94	29.88	44.72
Mean	6.25	10.17	15.60	30.82	46.84
S.D.	0.35	0.61	0.57	0.82	2.08

a = Pup culled on day 4

b = Pup missing on day 4

c = Litter inadvertently not weighed on day 0

Preweaning Period: Individual Pup Body Weights (Female) 6 mg base/kg/day

Dana

Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
15111	7.01	11.62	18.70	38.11	60.34
15112	6.95	11.70	18.44-	36.51	59.13
15113	6.63	11.50			
15114	6.36	10.93	17.12	35.97	8 58.36
15115	6.82	11.88	18.22	36.49	60.25
13113	0.02	11.00	10.22	30.13	00.23
Mean	6.75	11.53	18.12	36.77	59.52
S.D.	0.26	0.36	0.69	0.93	0.95
3.0.	0.20	0.30	0.09	0.93	0.93
15211	5.94	9.20	14.81	32.74	52.96
15212	5.79	9.31	14.78	33.07	53.27
15213	5.69	9.56	14.84	32.95	52.33
15214	5.87	9.18		-	
15215	6.40	10.04	16.57	a 36.13	a 54.29
13213	0.10	10.01	10.57	30.13	34.25
Mean	5.94	9.46	15.25	33.72	53.21
S.D.	0.27	0.36	0.88	1.61	0.82
5.5.	0.27	0.00	0.00	2.01	0.02
15311	6.74	10.83	16.77	32.99	51.76
15312	7.06	9.99	a	a	a
15313	6.62	11.23	16.96	34.15	53.77
15314	6.66	10.93	16.61	33.27	52.01
15315	6.87	11.13	16.45	33.64	55.60
13322			20.13	55.01	33.00
Mean	6.79	10.82	16.70	33.51	53.29
S.D.	0.18	0.49	0.22	0.50	1.78
15411	6.21	10.29	a	а	a
15412	6.05	10.02	15.87	32.28	51.06
15413	6.07	10.23	16.48	33.89	52.78
15414	5.90	9.58	a	a	a
15415	5.33	9.04	14.47	30.03	47.20
15416	6.39	10.99	17.20	34.80	56.83
15417	6.23	10.63	a	a	a
Mean	6.03	10.11	16.01	32.75	51.97
S.D.	0.34	0.65	1.16	2.09	3.99
15511	6.16	10.09	16.66	34.67	55.68
15512	6.12	9.83	a	a	a
15513	6.35	9.88	16.14	34.00	55.54
15514	6.76	10.52	a	a	a
15515	6.32	9.26	15.20	32.12	51.49
15516	6.35	10.02	a	a	a
15517	6.21	9.78	a	a	a
15518	6.86	10.93	17.43	35.59	56.16
Mean	6.39	10.04	16.36	34.10	54.72
S.D.	0.27	0.50	0.94	1.47	2.17

a = Pup culled on day 4

b = Pup missing on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
15611	6.21	10.11	16.47	35.02	56.42
15612	6.04	9.06	a ·	a	a
15613	6.29	9.96	a	a	a
15614	6.24	9.81	16.49	34.42	53.33
15615	5.78	9.30	15.38	33.29	53.62
15616	6.33	10.57	a	a	a
15617	6.55	9.91	16.11	33.67	53.53
Mana	6.31	0.00	36.33	34.10	54.22
Mean	6.21	9.82	16.11	34.10	54.23
S.D.	0.24	0.50	0.52	0.77	1.47
15711	6.05	9.87	a	a	a
15712	6.55	10.40	16.86	34.56	54.13
15713	6.53	10.15	a	а	a
15714	6.62	9.99	16.54	34.68	53.91
15715	6.31	9.98	a	a	a
15716	6.58	10.14	16.09	34.34	54.48
15717	6.14	10.22	16.27	34.38	55.63
13/1/	0.11	10.22	10.27	34.50	33.03
Mean	6.40	10.11	16.44	34.49	54.54
S.D.	0.23	0.18	0.34	0.16	0.77
15812	5.69	9.48	15.20	31.68	49.89
15813	5.71	9.29	14.34	30.21	46.87
15814	5.71	9.70	15.64	31.02	50.18
15815	5.59	9.11	а	a	a
15816	5.43	8.87	14.46	30.84	48.10
15817	5.46	8.99	a	a	а
Mean	5.60	9.24	14.91	30.94	48.76
S.D.	0.13	0.31	0.62	0.60	1.56
16011	F 00	9.61	14.97	32.00	50.70
16011	5.90	9.61			
			a 15 37	a 22 20	a 51 72
16013	6.31	10.31	15.37	32.30	51.72
16014	6.35	9.97	15.85	32.76	52.74
16015	5.91	10.11	15.76	32.48	51.79
Mean	6.10	9.97	15.49	32.39	51.74
S.D.	0.22	0.26	0.40	0.32	0.83

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
16111	6.09	9.91	15.74	29.70	48.54
16112	6.12	10.01	15.30.	30.05	47.55
16113	5.33	8.61	13.66	27.70	43.01
16114	5.49	8.88	13.48	27.03	44.39
16115	6.29	9.51	а	а	a
16116	6.19	10.46	а	а	a
Mean	5.92	9.56	14.55	28.62	45.87
S.D.	0.40	0.71	1.14	1.48	2.60
16211	6.15	11.37	17.94	35.59	52.68
16212	6.29	11.05	a	a	a
16213	7.08	11.04	a	a	a
16214	5.79	9.91	15.30	33.97	51.39
16215	6.61	11.40	18.08	35.94	53.44
16216_	6.71	11.77	18.26	34.95	50.46
16201	6.26	10.78	a	a	a
Mean	6.41	11.05	17.40	35.11	51.99
S.D.	0.42	0.59	1.40	0.86	1.33
16333	6 17	7.66	12.00	27.70	40.60
16311	6.17	7.66	12.80	27.70	42.68
16312	6.56	10.34	a 14.40	a 20 20	a
16313	6.11	9.30	14.48	30.28	48.99
16314	5.71	9.63	15.81	31.77	49.59
16315	6.00	9.64	a	a	a
16316	6.23	9.89	15.34	30.28	48.25
16317	5.53	8.83	a	a	a
16318	5.99	9.88	a	a	a
Mean	6.04	9.40	14.61	30.01	47.38
S.D.	0.32	0.83	1.32	1.69	3.18
0.5.	0.52	0.05	2.52	1.05	3.10
16411	5.83	b	b	b	b
16412	5.61	8.44	12.96	30.05	45.11
16413	5.89	9.10	13.92	30.82	47.58
Mean	5.78	8.77	13.44	30.44	46.35
S.D.	0.15	0.47	0.68	0.54	1.75
16511	5.88	9.68	14.86	31.89	51.80
16512	5.82	9.76	15.20	33.10	54.20
16513	5.83	9.05	14.34	31.40	51.26
16514	5.77	8.02	12.86	29.49	47.74
Mass	5 02	0.13	14 33	21 47	E1 25
Mean	5.83	9.13	14.32	31.47	51.25
S.D.	0.05	0.80	1.03	1.50	2.67

a = Pup culled on day 4

b = Pup missing on day 4

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
16611	5.24	8.72	a	a	a
16612	5.21	8.67	a	a	a
16613	5.56	9.05	14.71	31.56	49.90
16614	5.16	8.77	14.17	29.81	47.72
16615	4.94	8.21	13.60	28.89	48.78
16616	5.47	9.13	a	a	a
16617	5.30	8.82	14.17	30.45	47.50
		-			
Mean	5.27	8.77	14.16	30.18	48,48
S.D.	0.20	0.30	0.45	1.12	1.10
0.0.	0.20	0.50	0.45	1.12	1.10
16711	5.11	8.96	14.36	31.16	46.18
16712	5.45	9.03	13.65	29.82	43.75
16713	+	9.29			
16714	5.58		13.23	31.13	47.17
10/14	3.33	9.16	14.33	30.47	45,94
Maam	F 30	0.11	12.00	20.65	45 36
Mean	5.38	9.11	13.89	30.65	45.76
S.D.	0.20	0.15	0.55	0.64	1.44
16011	5.50	0.00	11.55	21 22	45 55
16811	5.79	8.82	14.66	31.89	48.28
16812	6.05	9.38	15.58	33.12	50.41
16813	5.81	8.74	15.11	33.20	52.02
16814	6.07	9.58	15.62	33.49	51.77
Mean	5.93	9.13	15.24	32.93	50,62
S.D.	0.15	0.41	0.45	0.71	1.71
16911	5.61	9.94	15.60	30.93	47.79
16912	5.87	9.84	14.21	31.10	46.94
16913	5.66	9.70	14.56	28.89	46.65
16914	5.38	9.87	14.99	30.63	47.52
Mean	5.63	9.84	14.84	30.39	47,23
S.D.	0.20	0.10	0.60	1.02	0.52
17011	6.14	8.98	a	a	a
17012	5.72	9.10	a	a	a
17013	5.43	7.32	a	a	a
17014	5.46	7.69	13.17	32.23	50.93
17015	5.42	8.48	13.78	33.14	52.85
17016	6.00	9.50	15.68	35.84	55.99
17017	5.44	b	b	b	b
17018	5.66	8.65	14.72	32.63	53.36
Mean	5.66	8.53	14.34	33.46	53.28
S.D.	0.28	0.78	1.10	1.63	2.09

a = Pup culled on day 4

b = Pup missing on day 4

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
17111	6.01	9.83	15.60	30.56	48.88
17112	6.31	10.52	16.32.	32.35	50.12
17113	6.14	9.51	a	a	a
17114	6.07	9.37	14.53	29.99	48.32
17115	5.86	9.66	15.26	31.51	50.45
Mean	6.08	9.78	15.43	31.10	49.44
S.D.	0.17	0.45	0.74	1.04	1.01
		_			
17211	5.22	7.20	a	a	a
17212	5.64	7.49	11.93	29.15	45.91
17213	5.35	7.76	a	a	a
17214	5.59	7.51	11.50	28.85	43.43
17215	5.75	7.88	12.12	28.50	44.47
17216	5.68	8.03	13.08	30.56	47.11
1,210	3.00	0.05	23.00	30.30	-7.11
Mean	5.54	7.65	12.16	29.27	45.23
S.D.	0.21	0.30	0.67	0.90	1.61
3.D.	0.21	0.30	0.07	0.90	1.01
17311	7.47	9.94	17.72	36.96	57.17
17312	6.85	11.24	18.88	36.98	56.35
1/312	0.85	11.24	18.88	36.96	30.33
Mean	7.16	10.59	18.30	36.97	56.76
			0.82	0.01	0.58
S.D.	0.44	0.92	0.82	0.01	0.56
17411	6.49	10.46	17.31	36.11	55.76
17412	6.47	10.88	17.60	37.35	57.57
17413	6.44	11.33	18.36	39.38	65.32
	-			35.79	56.71
17414	6.65	11.05	17.66		
17415	6.73	10.74	a	a	a
17416	6.44	10.06	a	a	a
	5.51	10.55		25.16	
Mean	6.54	10.75	17.73	37.16	58.84
S.D.	0.12	0.45	0.45	1.63	4.38
17511	6.36	8.18	13.40	29.16	45.42
17512	6.10	8.60	a	a	a
17513	6.35	9.15	14.49	29.93	45.80
17514	6.30	8.80	a	a	a
17515	6.58	9.22	14.66	30.23	46.28
17516	5.59	7.60	11.71	26.26	40.94
17517	6.28	9.06	a	a	a
17518	5.92	8.44	a	a	a
		1			
Mean	6.19	8.63	13.57	28.90	44.61
S.D.	0.31	0.55	1.36	1.81	2.47

a = Pup culled on day 4

b = Pup missing on day 4

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
17611	6.20	11.09	17.18	31.66	49.55
17612	5.85	10.80	16.90-	31.97	51.41
17614	6.11	10.98	17.08	32.67	49.83
17615	6.21	b	b	b	b
17616	5.72	10.58	16.30	31.78	48.86
Mean	6.02	10.86	16.87	32.02	49.91
S.D.	0.22	0.22	0.39	0.45	1.08
17711	5.78	9.17	а	a	a
17712	5.83	9.77	14.65	27.75	48.71
17713	5.63	9.06	13.86	26.51	47.09
17714	6.05	9.47	a	a	a
17715	5.45	8.23	12.69	25.27	43.95
17716	5.56	8.98	a	a	a
17717	5.68	8.87	a	a	a
17718	5.50	8.76	13.26	26.52	46.34
17719	6.27	9.88	a	a	a
Mean	5.75	9.13	13.62	26.51	46.52
S.D.	0.27	0.52	0.84	1.01	1.98
17811	6.55	9.67	14.15	24.03	44.06
17812	6.66	9.49	a	a	a
17813	7.07	9.82	a	a	a
17814	6.41	9.25	a	a	a
17815	6.23	8.95	13.31	25.00	45.25
17816	6.53	9.70	14.31	26.59	44.51
17817	6.95	9.95	a	a	a
17818	6.43	9.33	14.97	26.58	42.14
Mean	6.60	9.52	14.19	25.55	43.99
S.D.	0.28	0.33	0.68	1.26	1.33
17911	6.03	9.74	15.43	31.52	49.40
17912	6.04	9.85	14.97	31.95	52.81
17913	6.21	10.48	16.02	32.58	54.44
	6.00	10.00	35.45	20.00	50.00
Mean	6.09	10.02	15.47	32.02	52.22
S.D.	0.10	0.40	0.53	0.53	2.57

a = Pup culled on day 4

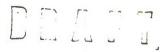
b = Pup missing on day 4

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Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
18011	5.51	8.48	a	a	a
18012	5.77	8.70	13.38-	26.04	43.37
18013	5.99	9.36	14.04	26.78	48.57
18014	5.45	8.62	12.96	25.23	42.97
18015	5.04	7.98	a	a	a
18016	6.16	9.30	14.33	26.58	46.87
10010	0.10	7.30	14.55		40.07
Mean	5.65	8.74	13.68	26.16	45.45
S.D.	0.41	0.52	0.62	0.69	2.72
18111	6.36	9.89	a	. a	a
18112	5.70	8.34	11.61	20.09	35.32
18113	6.18	9.53	a	a	a
18114	6.54	9.90	14.37	28.67	40.04
18115	5.61	8.78	13.26	26.49	44.19
18116	6.47	10.03	15.19	28.58	45.55
18117	5.54	8.29	a	a	a
Mean	6.06	9.25	13.61	25.96	41.28
S.D.	0.43	0.76	1.55	4.04	4.61
				-	
18211	6.51	9.65	a	a	а
18212	5.86	9.27	a	a	a
18213	5.30	8.26	11.72	23.38	40.85
18214	5.89	8.43	12.75	26.24	45.24
18215	5.61	8.98	a	a	a
18216	6.39	9.97	13.79	27.71	45.50
18217	5.93	9.68	a	a	a
18218	5.97	9.14	13.32	27.12	44.92
18219	6.10	9.36	a	a	а
Mean	5.95	9.19	12.90	26.11	44.13
S.D.	0.37	0.57	0.89	1.92	2.20
18311	5.76	9.28	a	a	a
18312	6.02	9.58	15.99	32.70	52.36
18313	6.88	10.33	a	a	a
18314	4.72	8.10	a	a	a
18315	6.10	9.58	16.10	33.33	53.26
18316	5.83	9.33	15.26	32.50	53.39
18317	6.18	9.48	15.80	32.81	51.59
18318	6.28	10.00	a	a	a
18319	5.89	9.19	a	a	a
Mean	5.96	9.43	15.79	32.84	52.65
S.D.	0.57	0.62	0.37	0.35	0.84

a = Pup culled on day 4

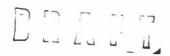
b = Pup missing on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21			
18411	6.05	9.62	14.79	27.68	43.76			
18412	5.53	8.67	13.61-	27.71	44.33			
18413	6.13	9.72	a	a	a			
18414	5.64	8.73	11.90	24.27	41.14			
18415	5.87	9.55	a	a a				
18416	6.25	10.23	15.15	29.82	49.54			
Mean	5.91	9.42	13.86	27.37	44.69			
S.D.	0.28	0.61	1.46	2.30	3.52			
				-				
18511	6.70	10.51	15.48	28.47	47.88			
18512	6.01	9.57	13.85	25.83	41.70			
18513	6.44	10.26	a	a	a			
18515	6.18	9.74	14.42	27.91	47.82			
18516	6.07	9.67	13.65	26.76	46.27			
18517	6.60	9.57	a	а	a			
Mean	6.33	9.89	14.35	27.24	45.92			
S.D.	0.29	0.40	0.82	1.18	2.91			
18611	5.93	9.23	13.91	26.89	41.14			
18612	5.43	8.25	a	a	a			
18613	5.89	9.39	14.49	27.89	41.89			
18614	5.15	8.25	13.07	24.65	36.73			
18615	6.09	9.17	14.33	27.38	43.27			
18616	5.69	8.35	a	a	a			
Mean	5.70	8.77	13.95	26.70	40.76			
S.D.	0.35	0.54	0.64	1.43	2.83			
18711	6.09	9.81	a	a	a			
18712	6.48	10.47	16.11	30.40	47.75			
18713	6.32	9.86	15.11	28.61	46.42			
18714	6.47	10.06	15.11	28.99	49.22			
18715	6.63	10.44	15.70	29.70	48.56			
Mean	6.40	10.13	15.51	29.43	47.99			
S.D.	0.20	0.31	0.49	0.79	1.21			
18811	6.15	9.15	14.35	30.60	49.87			
18812	5.20	7.91	12.80	27.52	44.79			
18813	6.59	10.03	16.15	31.60	47.80			
18814	6.40	9.41	a	a	a			
18815	5.58	8.52	13.29	28.22	43.89			
		0.00		00.11	16 55			
Mean	5.98	9.00	14.15	29.49	46.59			
S.D.	0.58	0.82	1.48	1.93	2.75			

a = Pup culled on day 4

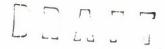
b = Pup missing on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
18911	5.00	7.10	10.79	23.14	35.34
18912	4.66	5.84	9.08 -	20.64	28.51
Mean	4.83	6.47	9.94	21.89	31.93
S.D.	0.24	0.89	1.21	1.77	4.83
	,				
19011	6.09	7.87	a	a	a
19012	5.74	6.88	10.47	22.71	38.19
19013	6.01	7.76	a	a	a
19014	5.74	7.64	a	a	a
19015	5.99	7.84	a	a	a
19016	5.82	b	b	b	b
19017	5.16	6.74	a	a	a
19018	5.43	6.88	10.78	24.03	40.15
19019	5.50	7.02	11.15	23.19	39.62
19020	6.24	8.50	13.12	26.66	44.01
Mean	5.77	7.46	11.38	24.15	40.49
S.D.	0.33	0.60	1.19	1.76	2.49
19111	6.16	9.61	15.30	29.73	47.54
19112	6.00	10.17	16.24	31.74	51.50
19113	5.67	8.85	14.33	28.37	47.21
19114	5.79	9.68	15.46	30.40	50.35
Mean	5.91	9.58	15.33	30.06	49.15
S.D.	0.22	0.55	0.78	1.40	2.11
10011	5.75	0.05			
19211	5.75	8.05	a	a	a
19212	5.27	7.96	11.10	24.22	40.68
19213	5.25	8.10	11.56	22.42	37.37
19214	5.17	7.77	11.14	22.87	37.12
19215	4.98	7.62	10.86	22.33	38.25
	5 00	7.00	12.15	20.05	20.75
Mean	5.28	7.90	11.17	22.96	38.36
S.D.	0.28	0.20	0.29	0.87	1.62

a = Pup culled on day 4

b = Pup missing on day 4



Pup #	Day 0	Day 4	Day 7	Day 14	Day 21	
19311	5.35	8.20	13.34	30.25	45.49	
19312	5.47	8.16	a ·	a	a	
19313	5.27	7.76	a	a a_		
19314	5.26	7.66	a	a_	a	
19315	5.24	7.88	13.03	28.05	42.23	
19316	5.40	6.58	10.77	24.92	36.98	
19317	5.17	7.51	12.12	27.03	41.02	
19318	5.19	8.17	a	a	a	
19319	5.36	7.71	a	a	a	
19320	5.32	8.31	a	a	a	
19305	5.52	8.04	a	a	a	
Mean	5.32	7.82	12.32	27.56	41.43	
S.D.	0.11	0.48	1.15	2.22	3.52	
19411	5.71	8.38	a	a	a	
19412	5.97	8.61	a	a	a	
19413	6.00	8.72	14.22	30.47	48.56	
19414	6.35	8.90	a	a	a	
19415	6.02	8.90	14.83	31.86	51.02	
19416	6.30	9.12	14.11	30.95	52.38	
19417	5.55	8.78	14.52	30.00	50.35	
19418	6.31	9.41	a	a	a	
19405	6.38	9.69	a	a	a	
Mean	6.07	8.95	14.42	30.82	50.58	
S.D.	0.30	0.41	0.32	0.79	1.59	
10511		2 45		00.50	11 05	
19511	5.66	8.41	13.71	28.79	44.06	
19512	5.82	8.66	13.67	28.83	43.98	
19513	5.69	8.28	14.15	29.07	43.91	
19514 19515		8.21		27.66	41.96	
13313	5.58	8.15	a	a	a	
Mean	5.66	8.34	13.62	28.59	43.48	
S.D.	0.10	0.20	0.51	0.63	1.01	
J.D.	0.10	0.20	0.51	0.03	1.01	
19611	5.86	9.01	13.13	24.33	41.17	
19612	5.49	8.53	a	a	a	
19613	5.65	8.52	13.38	24.41	40.73	
19614	5.35	7.93	a	a	a	
19615	5.80	8.18	12.27	22.97	38.29	
19616	5.05	7.55	a	a	a	
19617	5.92	9.24	13.66	25.03	42.62	
Mean	5.59	8.42	13.11	24.19	40.70	
S.D.	0.31	0.59	0.60	0.87	1.80	

a = Pup culled on day 4

b = Pup missing on day 4



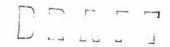
			•		
Pup #	Day 0	Day 4	Day 7	Day 14	Day 21
19711	5.00	6.43	a	a	a
19712	5.60	7.64	11.95-	24.21	38.90
19713	5.75	7.82	a	a	a
19714	5.66	7.29	11.19	23.45	38.26
19715	5.73	8.11	12.01	24.23	39.23
19716	6.02	8.27	12.23	23.87	38.65
19717	5.61	7.99	a	а	a
Mean	5.62	7.65	11.85	23.94	38.76
S.D.	0.31	0.63	0.45	0.37	0.41
19811	6.82	9.97	15.66	27.56	44.69
19812	6.41	9.61	15.28	27.41	46.66
	6.64	9.80	15.13	26.68	
19813					43.60
19814	6.33	9.72	15.73	27.91	46.32
Moan	6.55	9.78	15.45	27.39	45.32
Mean S.D.	0.22	0.15	0.29	0.52	
5.0.	0.22	0.15	0.29	0.52	1.43
10011	4 04	7.10	10.65	23.33	37.20
19911	4.94		10.65		37.20
19912	5.02	7.04	11.08	24.32	38.00
19914	5.28	7.34	11.68	24.68	39.60
19915	4.94	6.93	10.44	22.69	34.92
19916	5.33	7.21	a	a	a
	5 10		10.00	00.56	
Mean	5.10	7.12	10.96	23.76	37.43
S.D.	0.19	0.16	0.55	0.91	1.95
0.000	6 10	0.00	14 =0	20 10	50.50
20011	6.12	9.23	14.79	30.40	50.29
20012	5.93	9.46	15.24	30.98	52.07
20013	6.61	10.26	15.62	30.71	51.75
Mean	6.22	9.65	15.22	30.70	51.37
S.D.	0.35	0.54	0.42	0.29	0.95

a = Pup culled on day 4

b = Pup missing on day 4

POSTWEANING PERIOD: INDIVIDUAL ANIMAL BODY WEIGHTS AND BODY WEIGHT GAIN

Note: During the postweaning period, the individual animal was the experimental unit.

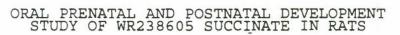


									CITMO .			·	٠	
				• • • • • • • • • •	TNT	TATDO	AL BO	DY. WEI	GHTS (Grams)	(Postwean	ing Perio		
	STU	JDY: 20	OOL			QUP: 1	-M		SE	X: MA	LE			
	ANIMAL #	PND 28 a	PND 35	PND 42	DOS PND 49	PND 56	(mg base	PND 70	PND 77C	PND 84	PND 91	PND 98	PND 105	
				• • • • • • • • • • • • • • • • • • • •										
	1011	95	153	217	289	357	399	445	b	b	b	b	b	
	1013	100	154	210	273	327	370	404	427	457	475	498	513	
	1021	102	160	216	274	329	372	411	b	b	b	b	b	
	1024	98	150	211	273	328	381	413	431	464	485	504	524	
	1032	103	160	214	278	337	387	421	b	b	ь	b	ь	
	1036	111	174	231	301	369	417	452	489	529	567	593	618	
	1043	102	158	212	269	318	361	393	b	Ь	ь	ь	ь	
1	1047	98	153	209	275	331	372	408	432	462	482	494	509	
	1052	108	172	233	294	350	384	410	b	b	Ь	b	b	
	1054	98	150	209	271	331	371	398	429	460	480	503	516	
1	1065	95	147	195	252	302	345	383	ь	b	b	b	Ь	
	1066	102	164	218	278	345	391	430	461	495	529	543	549	
	1071	94	149	202	263	330	371	410	b	b	b	b	b	
	1072	104	160	221	294	360	408	449	485	529	562	587	607	
	1083	106	166	235	305	364	410	436	b	b	b	b	b	
	1084	105	160	222	287	352	406	440	466	498	531	554	561	
	1091	105	167	232	290	344	387	421	b	b	ь	b	b	
	1097	97	164	223	283	342	388	421	439	472	495	528	552	
	1102	99	156	222	292	354	401	447	b	b	b	b	b	
1	1104	108	166	233	298	362	405	442	472	497	521	535	553	
	1112	99	154	215	278	344	388	425	b	b	b	b	b	
	1113	112	179	244	310	363	414	453	483	508	530	548	576	
	1125	93	152	211	273	323	372	402	b	b	b	ь	b	
	1127	87	146	205	267	322	373	413	433	476	506	531	548	
	1135	99	154	210	272	317	361	387	b	ь	ь	b	b	
	1136	108	173	238	303	370	418	457	481	516	509	549	572	
	1146	80	136	199	267	328	375	432	b	b	b	b	b	
	1148	93	155	220	289	341	394	434	463	489	514	534	553	
	1152	87	144	202	263	306	347	386	b	b	b	b	b	
	1153	92	149	190	269	321	378	415	440	476	504	531	541	
1,5	1161	96	150	209	271	323	372	412	b	b	b	b	b	
	1162	103	163	225	292	348	396	443	464	501	533	552	572	
	1173	103	158	216	264	290	341	379	b	b	b	b	b	
	1174	105	166	227	286	334	375	400	420	443	458	479	489	
	1185	105	162	232	287	347	396	443	b	b	b	b	b	
	1189	105	164	229	294	345	395	441	457	480	499	531	550	
	1192	108	173	241	315	382	433	485	ь	b	b	ь	ь	
	1193	108	171	233	300	363	416	464	496	533	551	578	602	
	1202	94	151	210	269	326	376	425	ь	b	b	ь	ь	
	1203	84	136	199	262	319	352	389	406	439	460	479	488	

^aTwo animals/sex/litter were evaluated from PND28 - 70.

^bScheduled sacrifice.

^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).





				IN	DIVID	JAL BO	DY WE	GHTS	(Grams)	(Postwea	ning Peri	od)	
 ST	UDY: 2	OOL		GRO		L-M (mg bas	se/kg/day)	SE	X: MA	LE			
 ANIMAL #	PND 28 ^a	PND 35	PND 42				PND 70	PND 77	PND 84	PND 91	PND 98	PND 105	
 							-						
1214	98	163	235	296	319	371	422	b	ь	ь	b	Ь	
1215	99	164	235	312	379	445	501	545	582	614	653	583	
1223	96	152	219	286	345	395	436	b	b	b	b	b	
1226	87	140	197	252	300	344	375	402	422	438	445	466	
1233	91	152	223	297	369	434	490	b	b	b	b	b	
1236	92	148	210	269	304	365	410	443	486	511	540	551	
1242	87	137	198	259	315	363	415	b	b	b	b	b	
1248	92	146	212	278	345	404	449	485	515	544	575	598	
1251	100	163	222	292	345	386	438	b	b	b	b	b	
12515	103	164	231	300	356	407	445	485	518	542	555	579	
12313	103	104	231	300	230	407	443	403	310	342	222	317	
MEAN	99	157	218	282	338	386	426	457	490	514	537	551	
S.D.	7.3	10.2	13.2	15.7	21.4	23.8	27.8	32.7	35.2	39.0	43.0	38.8	
N	50	50	50	50	50	50	50	25	25	25	25	25	
				: Data	Unavaila	ble b	: Schedule	ed Sacrif	ice				

^aTwo animals/sex/litter were evaluated from PND28 - 70.

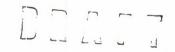
^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).

			-				
	INDIVII	DUAL BOI	Y WEI	GHTS (Grams) (Postwe	(boi)	 -
STUDY: 200L	GROUP: DOSE: ANIMAL #	1-M 0 (mg base PND 112	PND -119	SEX:			
	1011 1013 1021 1024 1032 1036 1043 1047 1052 1054 1065 1066 1071 1072 1083 1084 1091 1097 1102 1104 1112 1113 1125 1127 1135 1136 1146 1148 1152 1153 1161 1162	b 533 b 539 b 644 b 537 b 563 b 570 b 574 b 589 b 573 b 602 b b b b b	b 541 b 553 b 657 b 536 b 549 b 572 b 602 b 577 b 586 b 609 b 585 b 623 b b				
	1173 1174 1185 1189 1192 1193	b b	b b b				

1202 1203 b

b

^{-:}Data unavailable.



	INDIVIDUAL BODY WEIGHTS (Grams) (Postweaning Period)
STUDY: 200L	GROUP: 1-M SEX: MALE DOSE: (mg base/kg/day) ANIMAL # PND 112 PND 119
	1214 b b
	1215
	1223 b b
	1226
	1233 b b
	1236
	1242 b b
	1248
	1251 b b
	12515
	MEAN 574 586
	s.D. 34.7 36.9
	N 13 13
	: Data Unavailable b: Scheduled Sacrifice

					IN	DIVIDU	JAL BO	DY. WE	GHTS (Grams)	(Postwear	ning Peri	od)	
	STU	JDY: 2			GRO	OUP: 2	- M	-	SE	X: MA	LE			
1	ANIMAL #	PND 28ª	PND 35	PND 42	DOS	SE: Z	(mg base	/kg/day)	PND 77C	PND 84	PND 91	PND QR	PND 105	
	1264	114	187	257	327	394	449	495	b	b	ь	b	b	
1	1267	109	177	234	294	354	380	404	427	455	470	496	511	
	1275	99	132	208	270	325	366	404	ь	b	ь	b	ь	
	1277	99	138	215	282	348	397	439	461	496	522	540	564	
	1283	94	157	224	294	353	401	447	ь	b	ь	b	b	
	1286	100	157	224	295	366	423	472	511	552	575	592	622	
	1295	110	158	217	283	340	388	438	b	b	ь	b	Ь	
	1296	108	165	232	311	381	426	452	487	528	559	586	607	
	1307	107	168	229	302	367	415	459	b	b	b	b	b	
	1309	108	167	224	292	353	400	422	445	478	496	512	536	
1	1311	107	173	240	314	372	403	451	ь	Ь	Ь	b	b	
	1312	109	168	234	304	365	417	456	482	513	541	569	591	
	1322	109	174	239	308	376	426	479	ь	ь	b	b	b	
	1323	114	181	255	323	382	400	477	502	541	563	599	620	
	1331	94	148	206	259	317	358	396	ь	Ь	ь	b	Ь	
	1333	93	146	211	263	315	357	392	419	449	473	497	506	
	1341	94	149	207	265	313	350	377	b	b	ь	b	b	
•	1343	97	163	225	294	353	405	442	473	509	499	549	564	
	1353	95	153	213	280	340	390	432	b	b	b	b	b	
	1354	88	135	169	232	290	338	372	403	430	455	471	496	
	1361	90	150	214	280	341	395	433	ь	b	b	b	b	
ŀ	1365	97	162	228	300	358	414	448	483	514	554	568	585	
	1375	92	142	198	252	299	339	371	b	b	ь	b	b	
	1379	99	153	214	272	331	380	406	440	469	486	508	519	
	1382	100	165	226	288	345	393	428	Ь	b	ь	b	b	
	1383	100	162	228	294	342	391	420	455	487	516	534	548	
	1392	94	154	212	266	323	362	400	Ь	b	ь	b	ь	
	1394	98	161	222	285	345	390	428	458	494	518	544	564	
1	1401	89	143	206	274	339	393	436	Ь	b	ь	b	Ь	
	1404	87	133	184	251	301	348	387	403	431	461	485	511	
•	1414	98	154	223	292	354	409	449	ь	Ь	ь	b	Ь	
	1415	102	160	225	284	342	383	421	431	473	498	525	545	
	1421	91	147	203	273	327	378	417	Ь	ь	ь	b	ь	
	1428	95	150	215	296	361	431	491	526	559	595	620	657	
	1432	104	166	233	306	370	430	478	ь	ь	b	b	b	
	1434	97	162	228	302	292	245	372	452	493	529	561	594	
	1443	89	145	208	277	340	384	424	ь	ь	ь	b	b	
	1444	90	149	205	261	310	356	390	415	445	464	477	501	
	1452	84	143	215	282	348	404	449	Ь	b	b	b	b	
	1454	78	137	203	267	335	388	424	447	488	514	548	571	

^aTwo animals/sex/litter were evaluated from PND28 - 70.

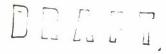
^bScheduled sacrifice.

^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).



INDIVIDUAL BODY WEIGHTS (Grams) (Postweening Period)													
STU	JDY: 20	OOL				- M	e/kg/day)	SE	X: MA	LE			
ANIMAL #	PND 28 ^a	PND 35	PND 42	PND 49			PND 70	PND 77 ^C	PND 84	PND 91	PND 98	PND 105	
1461	99	161	227	292	358	405	456	b	b	b	ь	b	
1463	96	149	223	282	322	368	415	447	479	508	534	555	
1474	88	116	191	255	321	374	413	b	b	b	b	b	
1475	87	148	214	280	343	397	389	436	487	522	548	584	
1483	98	159	230	294	360	405	441	b	b	b	b	b	
1484	94	153	221	293	357	407	448	481	506	526	417	517	
1491	84	145	221	303	384	465	532	ь	ь	b	b	b	
1493	101	161	226	293	345	372	407	425	447	464	480	496	
1501	95	149	213	274	329	376	409	b	b	ь	b	b	
1503	98	155	219	272	329	378	413	441	472	496	529	537	
MEAN	97	155	219	285	343	389	430	454	488	512	532	556	
S.D.	8.1	13.3	15.6	19.2	24.1	33.9	34.4	32.6	35.1	37.8	46.4	44.1	
N	50	50	50	50	50	50	50	25	25	25	25	25	
				: Data	Unavailat	ble b	: Schedule	d Sacrif	ice				

^aTwo animals/sex/litter were evaluated from PND28 - 70. ^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).



				HTS (Grams) (Postweaning	
STUDY: 200L	GROUP: DOSE:	2-M 2 (mg base	/kg/day)	SEX: MALE	
	ANIMAL #	PND 112	PND -119		
	1264	ь	b		
	1267	517	530		
	1275	ь	b		
<u>. 1</u>	1277	569	592		
	1283	Ь	Ь		
	1286	640	660		
ì	1295	Ь	ь		
	1296	622	636		
	1307	ь	Ь		
	1309	550	563		
	1311	Ь	Ь		
	1312	615	624		
	1322	Ь	Ь		
	1323	647	666		
	1331	ь	ь		
ł	1333	536	553		
	1341	Ь	b		
	1343	592	606		
	1353	ь	ь		
	1354	510	520		
	1361	Ь	Ь		
	1365	604	624		
	1375	ь	ь		
	1379	538	550		
	1382	b	Ь		
	1383	557	566		
	1392	Ь	Ь		
	1394				
	1401	Ь	ь		
	1404				
	1414	Ь	ь		
	1415				
	1421	b	Ь		
	1428 1432				
		b	ь		
	1434 1443				
	1443	Ь	b 		
	1452	ь	ь 		
	1454				

-:Data unavailable.



1	INDIVID	UAL BO	DY WEIG	HTS (Grams)	(Postweaning Period)	
STUDY: 200L	GROUP: DOSE: ANIMAL#	2-M 2 (mg bas PND 112		SEX: M	ALE	
	1461	b	b			
	1463					
	1474	b	b			
	1475					
	1483	b	b			
	1484					
	1491	b	b			
	1493					
	1501	b	b			
	1503	••				
1	MEAN	577	592			
	S.D.	46.3	48.4			
	N	13	13			
**	: Data Unavail	able b	: Scheduled	Sacrifice		

								DĂ ME	IGHTS	(Grams)	(Postwear	ing Peri	od)	
	STU	JDY: 2	00L		GRO	OUP: 3	M (mg base	/kg/day)	SE	X: MA	LE			
	ANIMAL #	PND 28 ^a	PND 35	PND 42	PND 49	PND 56	PND 63		PND 77 C	PND 84	PND 91	PND 98	PND 105	
	1511	109	165	226	295	352	402	438	b	ь	Ь	Ь	Ь	
li.	1515	112	169	227	298	357	403	428	450	488	503	531	545	
	1523	105	169	234	305	371	427	474	Ь	Ь	Ь	Ь	b	
	1524	100	162	222	292	352	403	441	466	496	518	409	511	
	1532	93	152	213	279	338	375	411	ь ь	Ь	Ь	Ь	ь	
	1533	90	137	188	257	308	354	391	413	448	472	493	507	
	1542	98	146	200	261	319	352	393	ь	ь	Ь	Ь	ь	
	1544	94	138	195	257	316	370	418	439	475	497	506	538	
	1554	106	167	231	311	374	443	497	Ь	Ь	ь	Ь	Ь	
	1555	95	157	219	291	357	406	452	480	509	547	566	581	
	1561	93	156	221	292	349	398	445	b	b	b	b	b	
	1566	99	163	232	309	375	422	459	477	504	528	547	570	
	1571 1574	106 100	167 165	229 219	303	361	419	461	454	ь 479	504	b	b	
					290	345	393	427	_			528	535	
	1584 158 5	91 88	150 143	213 204	288 2 7 4	348	395 375	435	422	445	ь 472	494	b	
		-				334		408					513	
	1603 1605	89 99	141 158	205 221	260 2 79	323	366 387	409	ь 456	489	ь 515	534	556	
	1611	89	142	192	251	343 302	353	431 388	430 b	409 b		534 b		
	1612	78	129	183	238	287	327	357	379	406	426	442	6 461	
	1622	94	149	211	280	334	388	426	5/9 b	406 b	420 b	442 b	40 I	
	1625	103	166	228	294	352	401	441	469	502	529	551	572	
	1634	96	152	214	282	337	386	442	b	b	b	Ь	b	
	1636	91	147	214	271	325	370	410	436	474	492	515	536	
	1644	89	142	197	262	319	323	378	b	b	b	Ь	b	
	1646	82	130	181	246	292	339	380	404	436	464	497	525	
	1652	97	157	224	291	340	389	433	ь	b	ь	Ь	b	
	1658	99	161	219	286	338	385	419	454	480	503	528	548	
	1661	93	143	202	265	321	365	408	b	b	b	b	b	
	1664	91	146	206	272	322	367	398	429	458	485	511	538	
	1672	90	149	209	284	342	391	432	b	Ь	b	b	b	
	1673	98	161	224	305	365	419	466	512	543	584	606	634	
	1681	99	162	230	313	375	432	480	ь	ь	ь	ь	Ь	
	1685	94	152	220	291	357	423	472	502	550	577	603	627	
	1691	88	143	199	258	297	335	340	ь	b	ь	b	b	
	1692	89	147	207	279	326	372	413	431	460	479	501	524	
	1704	96	152	216	282	331	375	408	b	ь	b	b	ь	
	1706	92	148	213	270	320	357	390	413	438	456	486	503	
	1714	96	152	211	276	334	378	419	Ь	Ь	b	b	b	
	1715	105	170	234	301	365	411	449	475	494	521	537	550	

Note: There was no litter F₁ litter No. 159 since F₀ dam No. 159 was not pregnant.

^aTwo animals/sex/litter were evaluated from PND28 - 70.

^bScheduled sacrifice.

^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).

										اسا	L	ن ن	U,
				IN	DIVIDU	AL BO	DDY WEIG	HTS	(Grams)	(Postwear	ing Perio	od)	
STU	JDY: 20	00L				-M	e/kg/day)	SE	X: MA	LE			
ANIMAL #	PND 28 ^a	PND 35	PND 42				PND 70	PND 77 C	PND 84	PND 91	PND 98	PND 105	
1723	80	130	186	243	287	771	377	L	h.		h	b	
1727	84	130	192	253	319	331 376	419	443	b 489	ь 512	520	545	
1733	111	169	235	303	366	419	473	b	407 b	b	b	b	
1734	109	179	254	324	387	448	498	528	557	583	599	625	
1741	109	177	248	321	377	429	483	b	b	b	b	b	
1743	107	174	241	309	366	415	460	485	525	560	580	611	
1754	89	144	204	266	323	367	406	b	b	b	b	b	
1755	83	142	202	267	314	363	410	447	487	510	539	566	
MEAN	96	153	214	282	338	386	427	453	485	510	526	551	
S.D.	8.3	12.9	16.7	21.1	25.1	30.8	35.2	35.2	36.9	40.2	46.8	42.4	
N	48	48	48	48	48	48	48	24	24	24	24	24	
				: Data	Unavailab	le 1	b: Scheduled	Sacrif	ice				

^aTwo animals/sex/litter were evaluated from PND28 - 70. ^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).



	INDIVII	OUAL BOI	DY WEI	GHTS (Grams) (Postwe	eaning Period)	
Y: 200L	GROUP: DOSE:	3 - M	/kg/day)	SEX:	MALE		
	1511 1515	574					
	1523	b	Ь				
	1524	543	563				
	1532	b	Ь				
	1533	526	537				
	1542	b	ь				
	1544	559	572				
	1554	b	ь				
	1555	608	625				
	1561	b	ь				
	1566	584	598				
	1571	b	ь				
	1574	556	568				
	1584	b	Ь				
	1585	521	532				
	1603	ь	Ь				
	1605	581	597				
	1611 1612	b 479	ь 493				
	1622	4/9 b	493 b				
	1625	593	614				
	1634	b	b				
	1636						
	1644	b	ь				
	1646						
	1652	b	ь				
	1658						
	1661	b	b				
	1664						
	1672	b	Ь				
	1673						
	1681	b	Ь				
	1685						
	1691	b	ь				
	1692	• •	b				
	1704	b	Ь				
	1706	• •					
	1714	b	b				
	1715	• •					

-:Data unavailable.

bScheduled sacrifice.

Note: There was no litter F₁ litter No. 159 since F₀ dam No. 159 was not pregnant.



	INDIVIDU	AL BO	DY WEIG	HTS (Grams)	(Postweaning Period)	
STUDY: 200L	GROUP: 3 DOSE: 6 ANIMAL #	(mg bas	se/kg/day) PND·119	SEX: MA	LE	
	1723	b	b			
	1727					
	1733	ь	b			
	1734					
	1741	b	b			
	1743	• •	• •			
	1754	b	b			
	1755					
	MEAN	557	571			
	S.D.	37.5	38.9			
	N	11	11			
:	Data Unavailab	ole b	: Scheduled	Sacrifice		



								DY WE	IGHTS	(Grams)	(Postwear	ing Peri	od)	
	ST	JDY: 2	OOL		GRO	OUP: 4 SE: 1	-M 8 (mg ba	ase/kg/da	SE	X: MA	LE			
	ANIMAL #	PND 28 ^a	PNO 35	PND 42	PND 49	PND 56	PND 63	PNO 70	PND 77 C	PND 84	PNO 91	PNO 98	PND 105	
-														
	1762	93	152	211	273	326	370	409	Ь	Ь	Ь	Ь	Ь	
	1763	96	157	217	277	337	384	425	456	482	505	533	549	
	1773	93	154	219	282	337	381	422	Ь	Ь	Ь	Ь	Ь	
	1774	92	149	209	277	333	376	409	425	456	478	502	526	
	1782	89	146	212	268	328	366	398	Ь	Ь	Ь	b	b	
	1783	86	141	204	268	326	375	417	442	472	491	506	520	
	1792	96	151	207	277	340	396	425	Ь	Ь	Ь	Ь	Ь	
	1795	95	151	204	260	315	355	386	408	434	453	477	494	
	1801	83	138	193	250	316	369	416	Ь	Ь	Ь	b	Ь	
	1806	83	140	197	263	245	330	382	422	456	487	516	538	
	1813	94	148	204	264	326	366	402	Ь	Ь	Ь	Ь	Ь	
	1814	93	148	206	270	328	373	418	445	474	498	514	531	
	1823	88	143	201	239	252	321	371	b	b	b	b	b	
	1824	88	141	196	265	324	371	422	449	481	510	532	560	
	1831	98	158	225	294	354	393	429	b	b	b	Ь	b	
	1835	96	151	216	282	339	385	426	458	495	525	549	568	
	1845	87	141	201	265	325	373	407	b	b	b	b	b	
	1846	84	131	192	250	310	361	408	442	483	510	534	554	
	1852	90	146	207	267	328	383	421	b	b	b	b	b	
	1853	97	160	229	301	372	426	475	507	552	581	605	627	
	1861	81	140	196	257	309	357	374	b	b	b	b	b	
	1865	73	122	167	213	257	290	311	332	360	382	397	406	
	1873	88	14D	191	255	313	360	388	Ь	b	b	b	b	
	1875	83	136	197	256	300	341	373	401	426	455	474	495	
	1882	100	160	225	297	362	420	478	b	b	Ь	b	b	
	1883	94	154	214	273	334	377	418	442	472	498	511	532	
	1894	88	148	216	294	352	412	456	b	b	b	b	b	
	1897	80	132	187	249	299	341	369	374	414	443	468	491	
	1901	84	142	204	259	318	364	403	b	b	b	b	ь	
	1904	82	139	197	254	309	355	391	418	446	470	494	512	
	1912	98	152	206	277	337	393	409	b	b	b	b	b	
	1914	93	147	214	291	349	410	460	472	506	542	586	610	
	1921	82	138	190	258	313	373	414	b	b	b	b	b	
	1924	76	127	183	248	315	370	422	447	487	523	546	571	
	1934	80	133	193	257	314	372	420	b	b	b	b	b	
	1936	80	133	189	252	304	359	402	424	462	494	516	539	
	1941	89	143	200	266	328	371	412	Ь	b	b	b	b	
	1942	102	174	242	314	382	434	472	508	546	579	611	637	
	1952	82	133	193	254	314	371	412	b	Ь	Ь	Ь	ь	
	1956	91	147	212	272	333	380	416	443	474	500	521	540	
	1720					223	300	710	773	717			270	

^aTwo animals/sex/litter were evaluated from PND28 - 70.

^bScheduled sacrifice.

^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).



INDIVIDUAL BODY WEIGHTS (Grams) (Postweaning Period)													
STU	JDY: 2	OOL				-M	ase/kg/day		X: MA	LE			
ANIMAL #	PND 28 ^a	PND 35	PND 42		PND 56	PND 63	PND 70	PND 77 C	PND 84	PND 91	PND 98	PND 105	
1962	89	144	199	253	302	337	368	b	b	b	b	b	
1965	82	138	198	256	311	363	392	416	442	461	479	492	
1972	87	140	203	263	323	370	404	Ь	b	b	b	b	
1974	76	124	183	233	285	335	378	399	429	465	489	507	
1982	88	144	202	264	321	366	406	Ь	Ь	b	b	b	
1988	94	152	216	280	335	382	416	444	466	493	516	525	
1991	69	118	178	246	308	373	425	b	b	b	b	b	
1993	76	126	187	251	311	369	410	435	475	501	527	548	
2005	95	153	214	269	329	371	406	b	Ь	b	b	ь	
2008	95	155	215	276	329	374	411	426	449	475	494	512	
MEAN	88	144	203	266	321	371	410	433	466	493	516	535	
S.D.	7.4	10.8	13.8	18.0	25.5	25.3	28.9	36.6	39.3	41.4	44.7	47.5	
N	50	50	50	50	50	50	50	25	25	25	25	25	
				: Data	Unavailat	ole b	: Schedule	d Sacrif	ice				

^aTwo animals/sex/litter were evaluated from PND28 - 70. ^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).



	INDIVID	UAL BO	DY WEIG	HTS (Grams)	(Postweaning Period)
STUDY: 200L	GROUP: DOSE: ANIMAL #	4-M 18 (mg ba PND 112	se/kg/day)	SEX: MAL	ıΕ
	1762 1763 1773	570 b	b 585 b		

1774 543 558 1782 b b 534 1783 543 1792 b b 1795 514 521 1801 b b 1806 565 577 1813 b 1814 549 559 1823 b b 1824 581 598 1831 b b 593 601 1835 1845 b b 1846 573 597 1852 ь b 1853 657 684 1861 b b 1865 430 402 1873 b b 1875 514 531 1882 b b 1883 - -1894 b b 1897 - b 1901 b 1904 1912 b b 1914 1921 b b 1924 - -1934 b b 1936 - -1941 b b 1942 .. - -1952 b b 1956

-:Data unavailable.

bScheduled sacrifice.



						and the same of th
	INDIVIDU	AL B	ODY WEIG	HTS (Grams) (Postweaming	Period)
STUDY: 200L	GROUP: 4 DOSE: 1 ANIMAL #	.8 (mg	base/kg/day)	SEX: N	MALE	
			•			
	1962	b	b			
	1965					
	1972	b	ь			
	1974					
	1982	b	b			
	1988					
	1991	b	b			
	1993					
	2005	b	b			
	2008					
	MEAN	552	563			
	S.D.	54.5	66.3			
	N	12	12			
:	Data Unavailal	ole	b: Scheduled	Sacrifice		

 				IN	DIVIDU	JAL BOI	DY WE				aning Per	iod)	
STU	JDY: 2	OOL		GRO DOS	OUP: 1	-F)(mg base/	/kg/day)		X: FE	MALE			
 ANIMAL #	PND 28 ^a	PND 35	PND 42			PND 63			PND 84	PNO 91	PND 98	PNO 105	
10143	02	117	4/2	100	244	225	2/7	_			_	_	
10112	92	117	162	190	214	225	243	b	ь .	b	b	b	
10113	96	125	175	208	236	259	275	316	361	421	338	376	
10214	89	133	176	193	213	242	249	b	b	b	b	b	
10217	95	137	179	204	235	247	277	294	340	413	350	340	
10315	90	129	152	180	204	218	233	ь	ь	ь	ь	b	
10318	95	136	165	177	214	243	262	288	327	386	318	330	
10412	97	134	171	203	186	225	246	Ь	Ь	ь	Ь	Ь	
10413	90	128	156	170	206	220	238	276	317	393	291	281	
10511	84	118	146	165	189	198	208	ь	b	Ь	Ь	Ь	
10513	87	132	160	182	205	221	234	273	307	287	Ь	Ь	
10614	94	133	171	191	209	229	244	ь	ь	Ь	Ь	ь	
10616	97	132	160	180	197	211	229	255	295	371	284	301	
10712	96	136	170	199	224	239	254	Ь	Ь	b	Ь	b	
10713	89	128	165	191	213	247	280	319	361	429	365	396	
10813	97	140	165	188	210	226	237	Ь	Ь	Ь	Ь	Ь	
10815	93	134	160	176	204	223	233	265	297	364	291	291	
10911	92	134	172	195	214	223	249	279	317	393	309	320	
11012	89	132	176	197	231	254	281	ь	ь	ь	ь	ь	
11015	97	141	184	214	245	268	296	337	386	477	372	364	
11111	96	135	176	203	220	231	252	Ь	Ь	Ь	Ь	ь	
11117	89	131	162	189	208	230	244	275	310	390	298	308	
11212	83	126	153	175	189	203	222	ь	b	b	Ь	ь	
11213	94	136	171	198	219	241	260	288	325	420	316	319	
11315	90	123	166	167	210	241	252	b	Ь	b	b	Ь	
11316	97	146	183	220	243	261	278	309	346	430	342	367	
11412	85	128	161	192	206	232	249	Ь	ь	b	b	ь	
11414	92 85	139 124	166 157	203	228	256	278	313	356	425	340	373	
11511				183	200	212	214	b	b	b	ь	b	
11519	78 97	124 143	156	178	197	219	237	272	306	390	296	308	
11611	97	136	172 166	203	213	232	247	, b	b	409	ь 318	b	
11612				195	219	251	264	302	334			315	
11711	92	126	161	174	196	206	227	b	b	b	D 2/7	b	
11712	85	121	151	170	185	200	211	251	286	356	243	261	
11812	96	144	180	203	211	218	252	b	b	b	b	b	
11814	92	132	158	176	197	213	224	256	296	368	301	298	
11911	97	148	193	225	246	266	284	b	D 715	5 770	Ь	Ь	
11915	108	157	195	218	247	261	278	304	315	330	b	Ь	
12012	81	128	157	180	206	226	240	b	, b	7.70	730	b	
12013	85	127	168	197	203	238	259	288	322	370	320	360	
12113	92	134	169	196	218	242	270	b	b	Ь	b	Ь	

^aTwo animals/sex/litter were evaluated from PND28 - 70. There was only one female in litter No. 109.

^bScheduled sacrifice.

^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).

	INDIVIDUAL BODY WEIGHTS (Grams) (Postweaning Period)													
STU	JDY: 2	OOL					*	SE	X: FE	MALE				
ANIMAL #	PND 28 ^a	PND 35	PND 42	PND 49	PND 56) (mg base PND 63	PND 70	PND 77	PND 84	PND 91	PND 98	PND 105		
12114	96	142	180	213	233	252	270	318	348	417	346	340		
12211	79	112	141	163	179	198	214	Ь	Ь	ь	ь	ь		
12213	89	130	163	192	211	228	247	274	306	399	284	278		
12312	84	124	148	179	197	209	227	b	b	b	b	ь		
12313	83	121	151	173	189	206	220	253	290	373	270	274		
12411	76	118	152	186	193	201	225	b	b	b	b	b		
12413	73	113	151	182	208	230	252	284	307	303	b	b		
12511	91	140	162	199	222	241	265	b	b	b	b	b		
12519	94	144	180	202	232	255	268	307	339	386	347	335		
MEAN	90	132	166	191	212	231	249	288	324	388	315	324		
S.D.	6.6	9.2	11.8	14.9	16.8	19.2	21.7	23.5	25.7	41.1	32.4	37.2		
N	49	49	49	49	49	49	49	25	25	25	22	22		
				: Data	Unavaila	ble b	: Schedule	ed Sacrif	ice					

^aTwo animals/sex/litter were evaluated from PND28 - 70. ^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).



	01		002				7
	INDIVII	OUAL BOD	Y WE	IGHTS (Gra	ms) (Posti	weaning Period)	
STUDY: 200L	GROUP: DOSE: ANIMAL#	1-F 0 (mg_base/k PND 112 P	(g/day) ND-119	SEX:			
	10112	b	b				
	10113		376				
	10214	b	5/6 b				
	10217	345					
	10315	b	b				
	10318	346	372				
	10412	b	ь				
	10413	293	298				
	10511	b	b				
	10513	b	b				
	10614	b	b				
	10616	311	304				
	10712	b	b				
	10713	396	395				
	10813	b	b				
	10815	290	305				
	10911	327	323				
	11012	b	Ь				
	11015	380	387				
	11111	b	Ь				
	11117	319	318				
	11212	Ь	Ь				
	11213	323	328				
	11315	Ь	ь				
	11316	366	380				
	11412	ь	Ь				
	11414						
	11511	b	Ь				
	11519						
	11611 11612	b 	_b				
	11711	ь	ь				
	11712						
	11812	ь	b				
	11814						
	11911	b	ь				
	11915	b	Ь				
	12012	b	b				
	12013	••					
	12113	b	b				
		-	_				

^{-:}Data unavailable.

bScheduled sacrifice.

		1	-	
1_1	-	Lu	u	u

	INDIVIDUAL E	ODY WEIGHTS	(Grams) ((Postweaming Per	
STUDY: 200L	GROUP: 1-F DOSE: 0 (mg bo ANIMAL # PND 11	ase/kg/day)	EX: FEMA	ALE	
	12114	••			
	12211 b	b			
	12213				
	12312 b	b			
	12313				
	12411 b	ь			
	12413 b	b			
	12511 b	b			
	12519	••			
	MEAN 340	343			
	S.D. 35.3	36.0			
	N 12	12			
:	Data Unavailable	b: Scheduled Sacri	fice		

							DY WE	GHTS	(Grams)	(Postwea	ning Peri	iod)	
ST	JDY: 2	OOL		GRO	OUP: 2	(mg hase	/kg/day)		X: FE	MALE			
 ANIMAL #	PND 28 ^a	PND 35	PND 42		PND 56	PND 63	PND 70	PND 77 C	PND 84	PND 91	PND 98	PND 105	
12611	101	145	173	207	234	255	266	ь	ь	ь	Ь	ь	
12612	99	146	184	210	248	266	287	323	359	447	324	343	
12715	85	127	160	183	205	231	241	b	b	b	b	b	
12716	87	129	162	191	219	245	257	300	343	437	313	327	
12813	96	138	181	206	239	259	284	Ь	Ь	b	b	b	
12815	91	132	169	199	243	261	287	313	348	397	344	380	
12911	99	139	172	203	228	252	271	b	Ь	b	b	b	
12912	100	138	167	201	227	243	265	289	310	302	306	b	
13011	96	140	174	199	223	235	253	Ь	b	ь	Ь	b	
13013	103	158	202	235	272	302	210	316	374	440	374	385	
13113	98	142	179	201	220	243	261	Ь	ь	Ь	Ь	b	
13114	97	145	183	206	233	248	267	302	338	416	312	340	
13212	98	147	175	215	238	254	279	b	b	ь	ь	Ь	
13213	104	150	178	208	233	247	261	302	347	398	338	341	
13315	92	135	168	192	215	241	256	ь	ь	b	Ь	Ь	
13317	95	135	170	197	229	252	274	312	351	434	318	339	
13412	85	124	153	183	203	225	244	Ь	Ь	Ь	Ь	Ь	
13414	86	132	166	193	223	248	268	300	326	403	321	328	
13512	87	124	150	172	202	220	240	Ь	Ь	. Ь	Ь	Ь	
13515	84	124	155	181	208	215	233	259	288	398	272	290	
13612	97	142	179	199	233	254	276	ь	_ b	Ь	Ь	ь	
13614	98	143	184	218	243	259	274	316	353	441	338	348	
13711	86 94	118 138	150	169	197	219	230	ь	ь	ь	ь	ь	
13713	85	127	168 169	202 189	228	244	259	298	328	377	335	337	
13811 13815	99	149	182	202	224 235	246 258	279 277	ь 315	ь 359	ь 438	5 344	ь 351	
13912	95	142	175	179	227	243	259	b	b	430 b	544 b	p	
13913	90	126	166	189	209	221	245	293	325	413	308	302	
14011	84	126	154	185	202	224	235	b	b	b	b	b	
14014	82	123	153	188	200	224	238	268	306	399	302	305	
14111	91	133	175	201	224	256	281	b	b	b	b	b	
14112	88	129	164	203	226	249	260	288	325	370	327	324	
14212	82	124	153	189	201	217	232	b	ь	b	b	Ь	
14213	86	134	166	194	222	243	264	291	320	368	326	336	
14314	85	134	171	205	226	254	279	b	b	b	Ь	Ь	
14315	84	124	157	187	209	223	248	287	328	383	316	362	
14412	89	128	164	192	209	230	244	275	303	373	284	290	
14416	85	129	161	185	213	235	181	b	b	b	Ь	Ь	
14511	75	121	160	190	210	234	248	Ь	Ь	b	b	Ь	
14514	73	124	164	184	214	237	262	290	322	383	319	323	

^aTwo animals/sex/litter were evaluated from PND28 - 70.

^bScheduled sacrifice.

^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).

				IN	DIVIDU	JAL BO	DY WE	GHTS	(Grams)	(Postwe	aning Per	iod)	
STU	JDY: 20	OOL			OUP: 2		e/kg/day)	SE	X: FE	MALE			
ANIMAL #	PND 28 ^a	PND 35	PND 42				PND 70	PND 77 C	PND 84	PND 91	PND 98	PND 105	
14613	89	135	171	206	229	248	249	b	b	ь	Ь	b	
14615	89	133	158	194	231	246	257	295	340	404	324	326	
14712	85	132	161	188	212	230	244	Ь	Ь	Ь	b	b	
14714	84	132	172	201	233	259	286	310	353	414	346	349	
14811	86	133	170	183	213	227	239	Ь	Ь	Ь	b	b	
14812	85	128	173	198	216	244	267	299	342	405	344	352	
14913	96	145	178	204	231	250	274	Ь	Ь	Ь	Ь	b	
14916	83	131	158	190	221	242	271	323	377	473	344	377	
15011	84	124	159	190	207	225	238	b	Ь	Ь	b	Ь	
15013	87	129	158	184	201	210	236	262	292	357	286	294	
MEAN	90	134	168	195	222	242	257	297	334	403	323	335	
S.D.	7.1	8.8	10.6	11.9	14.8	16.4	20.9	17.6	23.4	35.6	22.6	26.6	
N	50	50	50	5D	50	50	50	25	25	25	25	24	
				: Data	Unavailal	ole b	: Schedule	ed Sacrif	ice				

^aTwo animals/sex/litter were evaluated from PND28 - 70. ^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).

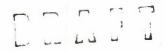


INDIVIDUAL BODY WEIGHTS (Grams) (Postweaning Period) STUDY: 200L GROUP: 2-F	ning Period)				
STUDY: 200L	DOSE:	2 (mg base)	/kg/day)	SEX: FEMALE	
	ANIMAL #	PND 112	PND -119		
	12611	b	h		
	13113	b	b		
		342	343		
		b			
	13213	348	362		
	13315	b	b		
		359	369		
	13412	b	b		
	13414	348	361		
	13512	b	b		
	13515	294	292		
	13612	b	b		
	13614	351	365		
		b			
		344	354		
			Ь		
	14111	b	b		
	14112				
	14212	Ь	Ь		
	14213				
	14314	Ь	Ь		
	14315				
	14412				
	14416	Ь	Ь		
	14511	Ь.	Ь		
	1/21/				

-:Data unavailable.

bScheduled sacrifice.

14514



	INDIVIDU	AL BO	DY WEIG	HTS (Grams	(Postweanin	g Period)
STUDY: 200L	GROUP: 2 DOSE: 2 ANIMAL#	(mg bas	se/kg/day) PND 119	SEX:	FEMALE	
-	14613	b	Ь			
	14615					
	14712	b	b			
	14714					
	14811	Ь	Ь			
	14812		• •			
_	14913	b	b			
	14916					
	15011	b	b			
	15013					
	MEAN	353	362			
	S.D.	25.3	26.7			
	N	12	12			
**:	Data Unavailab	le t	: Scheduled	Sacrifice		



										(Grams)		aning Per	iod)	
	STU	JDY: 20	00L		GRO	OUP: 3	F (mg base	/kg/day)	SE	X: FE	MALE			
	ANIMAL #	PND 28 ^a	PND 35	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77	PND 84	PNO 91	PNO 98	PNO 105	
	15112	93	127	162	187	208	236	254	Ь	ь	Ь	Ь	Ь	
	15115	105	151	188	216	250	272	292	325	363	424	359	355	
	15211	90	127	163	180	205	217	229	b	ь	Ь	Ь	Ь	
	15213	94	140	172	200	223	239	258	287	316	378	330	350	
	15313	91	133	168	185	212	221	250	b	Ь	Ь	Ь	Ь	
	15314	85	124	160	183	212	231	245	280	313	370	317	338	
	15412	86	126	164	194	216	239	264	Ь	ь	Ь	Ь	Ь	
	15416	94	136	167	194	219	244	263	283	318	401	329	348	
	15513	92	135	176	207	241	266	291	Ь	ь	ь	Ь	Ь	
	15518	95	144	181	204	148	229	246	273	313	372	321	349	
	15611	98	146	187	225	256	277	306	Ь	ь	ь	Ь	Ь	
	15617	94	141	177	204	247	266	298	328	363	445	360	396	
	15712	89	127	156	190	210	228	237	Ь	ь	Ь	Ь	ь	
	15714	96	142	174	202	217	244	263	309	352	443	341	343	
	15814	85	124	162	191	220	241	274	Ь	Ь	Ь	Ь	Ь	
	15816	83	130	167	188	224	248	273	279	312	363	466	338	
	16011	86	125	159	183	205	224	245	Ь	Ь	Ь	Ь	Ь	
	16015	89	126	159	181	202	216	231	265	291	355	294	298	
	16113	76	114	147	170	186	213	232	Ь	Ь	ь	Ь	Ь	
	16114	79	122	159	179	193	215	228	267	299	374	290	289	
	16211	87	110	158	180	196	213	235	ь	b	b	ь	b	
	16216 16311	84 80	109 122	149 155	164 181	183 197	200 218	219 233	250 b	288 b	355	275	301	
	16313	83	119	158	175	198	214		260	312	ъ 380	286	ь 301	
	16412	81	120	151	175	194	209	226 226	200 b	5 1Z	360 b	200 b	50 I	
	16413	80	128	161	195	215	236	260	292	327	372	325	336	
	16513	88	132	168	209	235	260	275	b	b	b	b	b	
	16514	84	131	178	215	241	264	285	314	354	449	343	364	
	16613	87	131	158	183	197	208	215	Ь	Ь	Ь	Ь	Ь	
	16614	83	127	160	191	208	228	241	273	303	370	280	287	
	16711	83	129	160	180	204	228	241	Ь	Ь	b	b	ь	
	16714	81	125	159	178	197	215	224	268	299	339	393	342	
1	16813	91	133	179	205	236	261	282	Ь	ь	b	b	Ь	
}	16814	90	133	171	193	150	231	243	289	328	388	323	328	
1	16911	79	121	146	174	184	201	211	Ь	Ь	ь	b	b	
	16913	83	125	159	190	213	214	234	261	296	395	273	289	
	17016	94	139	167	196	213	235	254	ь	Ь	b	Ь	ь	
	17018	87	131	163	187	213	231	249	274	301	386	286	304	
	17111	94	138	170	196	214	234	249	b	ь	ь	Ь	b	
	17115	89	131	162	182	213	232	249	278	310	378	319	320	

Note: There was no litter F₁ litter No. 159 since F₀ dam No. 159 was not pregnant.

^aTwo animals/sex/litter were evaluated from PND28 - 70.

^bScheduled sacrifice.

^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).

												La u	u
 				INI	DIVIDU	JAL BC	DY WE	GHTS ((Grams)	(Postwe	aning Per	iod)	
 STU	JDY: 20	OOL		GR(DO	OUP: 3	-F (mg base	e/kg/day)	SE	X: FEN	IALE			
ANIMAL #	PND 28 a	PND 35	PND 42	PND 49			PND 70	PND 77C	PND 84	PND 91	PND 98	PND 105	
17212	79	125	162	183	206	231	247	ь	ь	ь	b	b	
17215	73	114	147	176	203	219	233	254	276	326	270	275	•
17311	96	150	204	235	261	287	309	b	b	b	b	ь	
17312	91	134	160	180	201	204	219	256	295	384	286	294	
17411	96	144	188	223	255	283	303	b	ь	b	b	b	
17413	107	153	192	220	196	276	297	349	383	430	368	391	
17513	87	130	167	198	218	240	272	b	b	b	b	b	
17516	73	113	144	171	191	215	232	267	298	391	271	295	
									_				
MEAN	88	130	166	192	211	234	253	283	317	386	321	326	
S.D.	7.3	10.3	12.6	15.7	23.2	22.5	26.1	25.5	27.3	32.2	46.2	33.2	
N	48	48	48	48	48	48	48	24	24	24	24	24	
				: Data	Unavaila	ble t	: Schedule	d Sacrifi	ice				

^aTwo animals/sex/litter were evaluated from PND28 - 70. ^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).

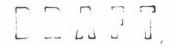


STUDY:	2001	GROUP: 3		,		s) (Postweani FEMALE	
SIUDI:	2001	DOSE:	5 − ₽ Cma base	/kg/day)	SEA:	FEMALE	
		ANIMAL #	DND 112	DND -110			
		15112	ь	b			
		15115	347	359			
		15211	b	Ь			
		15213	345	341			
		15313	Ь	ь			
		15314	338	332			
		15412	ь	Ь			
		15416	339	333			
		15513	b	Ь			
		15518	359	367			
		15611	Ь	Ь			
		15617	396	407			
		15712	ь	Ь			
		15714	355	355			
		15814	ь	Ь			
		15816	330	355			
		16011	ь	ь			
		16015	299	309			
		16113	ь	Ь			
		16114	292	286			
		16211	ь	ь			
		16216	293	286			
		16311	Ь	b			
		16313					
		16412	Ь	ь			
		16413					
		16513	Ь	ь			
		16514					
		16613	b 	b 			
		16614 16711	b	b			
		16714					
		16813	b	b			
		16814					
		16911	b	b			
		16913					
		17016	ь	ь			
		17018					
		17111	ь	ь			
		17115					
		11.112					

--:Data unavailable.

bScheduled sacrifice.

Note: There was no litter F₁ litter No. 159 since F₀ dam No. 159 was not pregnant.



	INDIVIDU	JAL BOI	DY WEIG	HTS (Grams)	(Postweaning Period)	
STUDY: 200L	GROUP: 3 DOSE: 6 ANIMAL #	(mg base		SEX: FI	EMALE	
	17212	Ь	Ь			
	17215					
	17311	Ь	Ь			
	17312					
	17411	Ь	Ь			
	17413		• •			
	17513	Ь	Ь			
	17516					
	MEAN	336	339			
	S.D.	31.5	36.0			
	N	11	11			
:	Data Unavailab	ole b:	Scheduled	Sacrifice		

				TNI	INDIVIDUAL BODY WEIGHTS (Grams)						(Postweaning Period)			
	JDY: 20			GRO	GROUP: 4-F SEX: FEMALE DOSE: 18(mg base/kg/day)									
ANIMAL #	PND 28 a	PND 35	PND 42			PND 63		PND 77 ^C	PND 84	PND 91	PND 98	PND 105		
17614	86	125	155	184	211	230	237	b	b	b	b	b		
17616	81	117	152	174	198	219	231	266	280	270	ь	b		
17712	92	138	168	194	216	237	254	ь	b	Ь	b	b		
17713	83	124	158	181	203	225	240	275	314	376	287	308		
17815	83	125	150	168	197	208	218	b	b	Ь	b	b		
17816	80	122	152	177	202	221	237	276	320	353	319	315		
17911	83	119	149	167	207	228	236	b	b	b	b	b		
17912	95	136	170	191	219	238	257	294	335	402	327	324		
18013	83	120	160	182	206	230	253	b	b	b	Ь	ь		
18014	76	113	143	170	195	215	235	288	322	407	307	314		
18112	66	96	119	142	160	172	181	b	b	b	b	Ь		
18116	81	108	140	156	171	176	188	227	276	359	240	238		
18213	69	102	126	151	171	189	206	b	b	b	b	b		
18214	75	112	140	168	186	213	232	274	315	397	319	328		
18315	92	133	177	206	238	270	293	b	Ь	b	b	b		
18317	89	123	160	186	218	237	253	290	328	427	335	354		
18411	71	108	134	158	178	192	207	b	Ь	b	b	b		
18416	88	130	164	193	214	233	256	298	350	440	319	338		
18511	89	132	162	190	223	245	265	b	b	b	ь	b		
18515	86	126	158	173	212	238	259	284	334	405	339	353		
18611	74	116	143	162	183	198	206	b	b	b	b	b		
18613	74	105	132	154	170	185	201	206	255	336	257	264		
18712	85	126	153	175	198	220	231	b	b	b	b	b		
18714	81	121	147	176	193	220	238	270	311	386	291	297		
18812	82	130	168	192	217	244	258	b	Ь	b	Ь	b		
18815	87	138	175	206	252	282	306	333	346	367	b	b		
18911	75	118	162	200	233	263	274	ь	Ь	b	b	Ь		
18912	61	103	142	180	210	241	260	280	310	341	350	357		
19012	70	114	154	174	197	216	235	ь	b	b	b	ь		
19019	73	118	155	177	202	222	234	275	300	374	283	298		
19112	96	148	181	214	237	263	279	b	ь	b	b	Ь		
19114	90	137	170	203	221	251	273	309	345	427	340	361		
19214	71	109	141	174	196	216	224	ь	Ь	b	Ь	Ь		
19215	71	110	142	170	192	218	231	262	295	352	312	312		
19315	86	134	176	208	236	260	291	b	b	b	b	b		
19317	76	118	152	184	197	231	254	289	336	421	315	331		
19415	88	131	160	186	209	225	246	ь	b	b	Ь	b		
19416	93	144	167	197	217	237	253	284	323	391	319	324		
19512	79	116	156	190	213	231	259	Ь	b	ь	Ь	b		
19514	74	113	149	173	198	219	232	260	306	381	308	313		

^aTwo animals/sex/litter were evaluated from PND28 - 70.

^bScheduled sacrifice.

^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).



				IN	DIVIDU	JAL BO	DY WEI	GHTS	(Grams)	(Postwe	aning Per	iod)	
 ST	JDY: 2	OOL			OUP: 4	-F 8 (mg ba	ise/kg/day)	X: FE	MALE			
ANIMAL #	PND 28 ^a	PND 35	PND 42		PND 56			PND 77	PND 84	PND 91	PND 98	PND 105	
10/17	74	447	1/0	4//	47/	400	202		L.	_			
19613 19617	71 76	116 116	140 148	164 175	176	198	223 247	277	ь 325	385	317	330	
					204	227							
19715	72	112	143	166	182	196	203	Ь	Ь	Ь	Ь	Ь	
19716	72	115	155	174	199	218	232	267	308	380	290	297	
19812	84	126	161	192	221	247	274	283	311	328	b	Ь	
19814	88	135	176	206	228	240	197	. b	Ь	b	b	Ь	
19912	67	104	141	166	196	214	238	b	b	b	b	b	
19915	65	101	136	154	179	198	214	245	280	362	257	277	
20011	93	134	173	204	235	248	236	b	b	b	b	b	
20012	86	134	185	204	234	245	271	300	333	418	330	334	
MEAN	80	121	154	180	205	226	241	276	314	379	307	317	
S.D.	8.7	12.0	14.6	16.9	20.4	23.4	27.0	25.3	23.6	37.8	28.8	30.4	
N.	5D	50	50	50	50.4	50		25.3		25			
N	20	30	50				50		. 25	23	22	22	
				: Data	Unavaila	ble b	: Schedule	ed Sacrit	1 Ce				

^aTwo animals/sex/litter were evaluated from PND28 - 70. ^cOne animal/sex/litter was evaluated from PND77 - scheduled sacrifice (i.e., during the fertility phase).



	INDIVID	UAL BOI	Y WEIGH	HTS (Gram	s)	(Postweaning	Period)
STUDY: 200L	GROUP: DOSE:	4 - F		SEX:	FEM	ALE	
	DOSE:	18 (mg bas	se/kġ/day)				
	ANIMAL #	PND 112	PND -119				
	17614	b	b				
	17616	Ь	b				
	17712	b					
	17713	ь 320	318				
	17815	b	b				
	17816	316	323				
	17911	b	b				
	17912	332	341				
	18013	b	b				
	18014	311	325				
	18112	b	b				
	18116	241	235				
	18213	ь	ь				
	18214	341	341				
	18315	b	b				
	18317	345	343				
	18411	b	b				
	18416	337	343				
	18511	ь	b				
	18515	362	377				
	18611	b	b				
	18613	263	258				
	18712	b	b				
	18714	309	313				
	18812	b	b				
	18815	b	b				
	18911	b	b				
	18912	b	b				
	19012	b	b				
	19019						
	19112	b	b				
	19114						
	19214	b	b				
	19215						
	19315	b	ь				
	19317	• •					
	19415	b	b				
	19416	• •	• •				
	19512	b	b				
	1051/						

-:Data unavailable.

bScheduled sacrifice.

19514

			-		Ļ		LU W	L
	INDIVIDU	AL BOD	Y WEIG	HTS (Gram	s) (Post	weaning	Period)	,
STUDY: 200L	DOSE: 1	-F 8(mg base, PND 112 P		SEX:	FEMALE			
	19613	b	b					
	19617	• •						
	19715	b	Ь					
	19716							
	19812	b	b					
	19814	b	b					
	19912	b	ь					
	19915							
	20011	b	b					
	20012							
	MEAN	316	320					
	S.D.	35.8	40.4					
	N	11	11					
	: Data Unavailab	le b:	Scheduled	Sacrifice				

238605 SUCCINATE IN RATS

					INDI	VIDUAI	WEIG	HT GAI	N (Gram	s) ^a (Pos	tweaning	Period)	
	STUDY:	200L			GROUP DOSE:	1-M 0 (mg	base/kg/c	day)	SEX:	MALE			
	ANIMAL #	PND 35 ^C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77d	PND 84	PND 91	PND 98	PND 105	
													•••••
	1011	58	64	72	68	42	46	Ь	Ь	b	Ь	ь	
	1013	54	56	63	54	43	34	23	30	18	23	15	
	1021	58	56	58	55	43	39	Ь	Ь	Ь	Ь	b	
	1024	52	61	62	55	53	32	18	33	21	19	20	
	1032	57	54	64	59	50	34	b	b	Ь	b	b	
	1036	63	57	70	68	48	35	37	40	38	26	25	
	1043	56	54	57	49	43	32	Ь	Ь	b	ь	b	
	1047	55	56	66	56	41	36	24	30	20	12	15	
	1052	64	61	61	56	34	26	b	b	b	b	b	
	1054	52	59	62	60	40	27	31	31	20	23	13	
	1065	52	48	57	50	43	38	ь	ь	b	ь	b	
	1066	62	54	60	67	46	39	31	34	34	14	6	
_	1071	55	53	61	67	41	39	ь	ь	b	b	b	
	1072	56	61	73	66	48	41	36	44	33	25	20	
	1083	60	69	70	59	46	26	Ь	Ь	Ь	Ь	b	
	1084	55	62	65	65	54	34	26	32	33	23	7	
	1091	62	65	58	54	43	34	ь	b	b	b	b	
	1097	67	59	60	59	46	33	18	33	23	33	24	
	1102	57	66	70	62	47	46	ь	Ь	b	b	b	
	1104	58	67	65	64	43	37	30	25	24	14	18	
	1112	55	61	63	66	44	37	ь	Ь	b	b	ь	
_	1113	67	65	66	53	51	39	30	25	22	18	28	
	1125	59	59	62	50	49	30	b	Ь	Ь	b	b	
	1127	59	59	62	55	51	40	20	43	30	25	17	
	1135	55	56	62	45	44	26	Ь	b	b	Ь	Ь	
	1136	65	65	65	67	48	39	24	35	-7	40	23	
	1146	56	63	68	61	47	57	Ь	Ь	b	b	b	
	1148	62	65	69	52	53	40	29	26	25	20	19	
i e	1152	57	58	61	43	41	39	b	b	Ь	b	Ь	
	1153	57	41	79	52	57	37	25	36	28	27	10	
	1161	54	59	62	52	49	40	b	b	b	b	b	
	1162	60	62	67	56	48	47	21	37	32	19	20	
	1173	55	58	48	26	51	38	b	b	b	b	b	
-	1174	61	61	59	48	41	25	20	23	15	21	10	
	1185	57	70	55	60	49	47	b	b	b	b	b	
	1189	59	65	65	51	50	46	16	23	19	32	19	
	1192	65	68	74	67	51	52	Ь	b	b	b	p	
	1193	63	62	67	63	53	48	32	37	18	27	24	
	1202	57	59	59	57	50	49	b	b	b	b	b	
	1203	52	63	63	57	33	37	17	33	21	19	9	
	ICOS	-		03	21	22	21	1.7	22	21	17	7	

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).

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 				INDIV	/IDUAL	WEIG	HT GAI	C N (Gram	ns) ^a (Pos	tweaning	Period)	
STUDY:	200L			GROUP:		base/kg/d	day)	SEX:	MALE			
ANIMAL #	PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77d	PNO 84	PND 91	PNC 98	PNO 105	•
 1214	65	72	61	23	52	51	h	h	h	b	h	
1215	65	71	77	67			Ь	37	32	39	70	
					66	56	44				-70	
1223	56	67	67	59	50	41	Ь	Ь	Ь	Ь	Ь	
1226	53	57	55	48	44	31	27	20	16	/	21	
1233	61	71	74	72	65	56	ь	Ь	b	Ь	Ь	
1236	56	62	59	35	61	45	33	43	25	29	11	
1242	50	61	61	56	48	52	b	b	b	b	b	
1248	54	66	66	67	59	45	36	30	29	31	23	
1251	63	59	70	53	41	52	b	b	b	ь	b	
12515	61	67	69	56	51	38	40	33	24	13	24	
MEAN	58	61	64	56	48	40	28	33	24	23	14	
S.D.	4.3	5.9	6.0	10.0	6.6	8.2	7.6	6.5	8.9	3.2	18.5	
N	50	50	50	50	50	50	25	25	25	2:5	25	
			:	Data Unava	ilable	b: Sche	eduted Sad	crifice				

^aWeight gains compared to the previous period.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



	INDIVI	DUAL	WEIGHT	GAIN (Gram	ns)a	(Postweaning Period)
STUDY:	GROUP:			SEX:	MAI	

DOSE: 0 (mg base/kg/day)

ANIMAL # PND 112 PND 119

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^{-:} Data Unavailable.



	INDIVII	OUAL WE	EIGHT (GAIN (Grams)	(Postweaning Period)	• • • • • • • • • • • • • • • • • • • •
STUDY: 200L	GROUP: 1 DOSE: 0	-M) (mg base,	/kg/day)	SEX: MA	LE	•••••
	ANIMAL #	PND 112 1	PND 119			
	1214	ь	b			
	1215					
	1223	ь	ь			
	1226		• •			
	1233	ь	Ь			
	1236	••	• •			
	1242	ь	Ь			
	1248	• •	• •			
	1251	ь	ь			
	12515					
	145.411	20	40			
£ .	MEAN	20	12			
	S.D.	5.1 13	6.1			
	n : Data Unavaila	_	13	Sacrifice		
	Data Unavaita	ore p:	scheduted	Sacrifice		



				INDI	VIDUAI	WEIG	HT GAI	N (Gram	s) ^a (Pos	tweaning	Period)
STUL	Y: 200L			GROUP DOSE:	: 2-M 2 (mg	base/kg/c	tay)	SEX:	MALE		
ANIMAL	# PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77 d	PND 84	PND 91	PND 98	PND 105
			• • • • • • • •								
1264	73	70	70	67	55	46	b	Ь	b	Ь	b
1267	68	57	60	60	26	24	23	28	15	26	15
1275	33	76	62	55	41	38	b	ь	Ь	b	b
1277	39	77	67	66	49	42	22	35	26	18	24
1283	63	67	70	59	48	46	b	b	Ь	b	b
1286	57	67	71	71	57	49	39	41	23	17	30
1295	48	59	66	57	48	50	ь	b	Ь	Ь	b
1296	57	67	79	70	45	26	35	41	31	27	21
1307	61	61	73	65	48	44	Ь	b	Ь	ь	b
1309	59	57	68	61	47	22	23	33	18	16	24
1311	66	67	74	58	31	48	ь	Ь	Ь	b	ь
1312	59	66	70	61	52	39	26	31	28	28	22
1322	65	65	69	68	50	53	b	Ь	b	b	ь
1323	67	74	68	59	18	77	25	39	22	36	21
					_						
1331	54	58	53	58	41	38	Ь	ь	ь	ь	Ь
1333	53	65	52	52	42	35	27	30	24	24	9
1341	55	58	58	48	37	27	ь	ь	b	Ь	Ь
1343	66	62	69	59	52	37	31	36	-10	50	15
1353	58	60	67	60	50	42	b	b	b	b	Ь
1354	47	34	63	58	48	34	31	27	25	16	25
1361	60	64	66	61	54	38	b	ь	ь	Ь	b
1365	65	66	72	58	56	34	35	31	40	14	17
1375	50	56	54	47	40	32	Ь	Ь	ь	b	b
1379	54	61	58	59	49	26	34	29	17	22	11
1382	65	61	62	57	48	35	b	b	ь	b	b
1383	62	66	66	48	49	29	35	32	29	18	14
1392	60	58	54	57	39	38	ь	Ь	b	b	b
1394	63	61	63	60	45	38	30	36	24	26	20
1401	54	63	68	65	54	43	b	b	b	b	b
1404	46	51	67	50	47	39	16	28	30	24	26
1414	56	69	69	62	55	40	b	ь	b	b	b
1415	58	65	59	58	41	38	10	42	25	27	20
1421	56	56	70	54	51	39	b	b	Ь	Ь	b
1428	55	65	. 81	65	70	60	35	33	36	25	37
1432	62	67	73	64	60	48	b	53 b	b	b	b
			74	-10							
1434	65	66			-47	127	80	41	36	32	33
1443	56	63	69	63	44	40	b	b	b	b	b
1444	59	56	56	49	46	34	25	30	19	13	24
1452	59	72	67	66	56	45	ь	Ь	Ь	b	ь
1454	59	66	64	68	53	36	23	41	26	34	23

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).

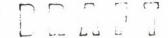


1					INDIV	IDUAL	WEIG	HT GAI	N (Gran	ns) ^a (Po	stweaning	Period)	
}	STUDY:	200L			GROUP:	2-M 2 (mg	base/kg/d	lay)	SEX:	MALE			
	ANIMAL #	PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77 d	PND 84	PND 91	PND 98	PND 105	
1	1461	62	66	65	66	47	51	ь	ь	ь	ь	ь	******
	1463	53	74	59	40	46	47	ъ 32	32	29	26	b 21	
	1474	28	75	64	66	53	39	Ь	Ь	Ь	Ь	ь	
	1475	61	66	66	63	54	-8	47	51	35	26	36	
	1483	61	71	64	66	45	36	b		Ь	Ь	Ь	
	1484	59	68	72	64	50	41	33	b 25	20	-109	100	
	1491	61	76	82	81	81	67	Ь	Ь	b	b	b	
•	1493	60	65	67	52	27	35	18	b 22	17	16	16	
	1501	54	64	61	55	47	33	b	b	b	b	b	
	1503	57	64	53	57	49	35	28	31	24	33	8	
	MEAN	57	64	66	58	46	41	31	34	24	19	24	
	S.D.	8.2	7.3	6.9	12.2	16.7	17.3	12.9	6.5	9.7	28.0	17.4	
	N	50	50	50	50	50	50	25	25	25	25	25	*
				:	Data Unava	ilable	b: Sche	eduled Sac	rifice				

^aWeight gains compared to the previous period.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



						Postweaming Period)
STUDY: 200L	GROUP: DOSE:	2-M 2 (mg b	pase/kg/day)	SEX:	MALE	

ANIMAL # PND 112 PND 119

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^{-:} Data Unavailable.

	STODI	OF WR23	8605 8	OCCINA	IE IN RAI	.5	L L J L	ا ا
		INDIVI	DUAL W	VEIGHT	GAIN (Grams)	(Postweanin		
STUDY: 200L		GROUP: DOSE:	2-M 2 (mg bas	e/kg/day)	SEX: M	IALE		
		ANIMAL #	PND 112	PND 119				
		1461	ь	ь				
		1463						
		1474	b	ь				
		1475						
		1483	b	b				
		1484						
		1491	b	b				
		1493						
		1501	b	b				
		1503						
95		MEAN	18	15				
		S.D.	8.1	4.6				
		N	13	13				
	: D	ata Unavail	able b	: Scheduled	d Sacrifice			

INDIVIDUAL WEIGHT GAIN (Grams) (Postweaning Period) STUDY: 200L 3 - MSEX: MALE GROUP: DOSE: 6 (mg base/kg/day) PND 77^d PND 84 PND 35 C PND 42 PND 49 PND 91 ANIMAL # PND 56 PND 63 PND 70 PND 98 PND 105 b b b b b -109 b b b b b b b b b b b b b b Ь b

b

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Note: There was no litter F1 litter No. 159 since F0 dam No. 159 was not pregnant.

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).

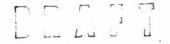


					INDIV	/IDUAL	WEIG	HT GA	C N (Gran	ns) ^a (Pos	tweaning	Period)	
	STUDY:	200L			GROUP:				SEX:	MALE			
	ANIMAL #	PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77 C	PND 84	PND 91	PND 98	PND 105	
					•••••								
1	1723	50	56	57	44	44	46	Ь	b	b	b	b	
	1727	46	62	61	66	57	43	24	46	23	8	25	
	1733	58	66	68	63	53	54	b	b	b	b	b	
	1734	70	75	70	63	61	50 54	30 b	29	26	16	26	
	1741	68	71	73	56	52	54	b	b	b	b	Ь	
	1743	67	67	68	57	49	45	25	40	35	20	31	
	1754	55	60	62	57	44	39	b	b	b	b	b 27	
	1755	59	60	65	47	49	47	37	40	23	29	27	
ĭ	MEAN	58	61	67	57	48	41	26	32	25	16	25	
	S.D.	5.9	5.2	6.6	6.4	9.5	8.8	6.7	7.1	6.1	27.3	17.5	
	N	48	48	48	48	48	48	24	24	24	24	24	
				:	Data Unava	ilable	b: Sch	eduled Sa	crifice				

^aWeight gains compared to the previous period.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



	INDIVI	DUAL	WEIGHT	GAIN (Grams	s) ^a	(Postweaning Period)
5			case/kg/day)	SEX:	MALE	
	ANIMAL #	PND 1	12 PND 119			

Note: There was no litter F1 litter No. 159 since F0 dam No. 159 was not pregnant.

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^{-:} Data Unavailable.



		INDIV	IDUAL V	VEIGHT	GAIN (Gram	ns) (Postwearing Period)
STUDY:	200L	GROUP: DOSE:	3-M 6 (mg bas	e/kg/day)	SEX:	MALE	
		ANIMAL #	PND 112	PND 119			
		1723 1727	b 	b 			
		1733 1734	b	b			
		1741	b	b			
		1743 1754	 b	b			
		1755					
_		MEAN	21	14			
		S.D.	6.8 11	4.1			

--: Data Unavailable b: Scheduled Sacrifice



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STUDY	: 200L			GROUP DOSE:	: 4-M	base/kg	(day)	SEX:	MALE		
				DOSE:	TQ (mg	g base/kg	/day)				
ANIMAL #	PND 35 C	PND 42	PND 49	PNO 56	PND 63	PND 70	PNO 77 ^d	PNO 84	PNO 91	PNO 98	PNO 105
1762	59	59	62	53	44	39	b	b	b	b	b
1763	61	60	60	60	47	41	31	26	23	28	16
1773	61	65	63	55	44	41	b	b	b	b	b
1774	57	60	68	56	43	33	16	31	22	24	24
1782	57	66	56	60	38	32	ь	b	b	b	b
1783	55	63	64	58	49	42	25	30	19	15	14
1792	55	56	70	63	56	29	b	b	b	b	b
1795	56	53	56	55	40	31	22	26	19	24	17
1801	55	55	57	66	53	47	ь	ь	Ь	Ь	b
1806	57	57	66	-18	85	52	40	34	31	29	22
1813	54	56	60	62	40	36	b	ь	b	b	Ь
1814	55	58	64	58	45	45	27	29	24	16	17
1823	55	58	38	13	69	50	b	b	b	b	b
1824	53	55	69	59	47	51	27	32	29	22	28
1831	60	67	69	60	39	36	b	b	b	b	b
1835	55	65	66	57	46	41	32	37	30	24	19
1845	54	60	64	60	48	34	b	_	b	b	b
	47		58					b	27		20
1846		61		60	51	47	34	41		24	
1852	56	61	60	61	55	38	b	b	ь	b	b
1853	63	69	72	71	54	49	32	45	29	24	22
1861	59	56	61	52	48	17	Ь	Ь	ь	b	b
1865	49	45	46	44	33	21	21	28	22	15	9
1873	52	51	64	58	47	28	Ь	Ь	Ь	Ь	ь
1875	53	61	59	44	41	32	28	25	29	19	21
1882	60	65	72	65	58	58	Ь	Ь	b	Ь	Ь
1883	60	60	59	61	43	41	24	30	26	13	21
1894	60	68	78	58	60	44	b	Ь	b	b	b
1897	52	55	62	50	42	28	5	40	29	25	23
1901	58	62	55	59	46	39	b	ь	b	b	ь
1904	57	58	57	55	46	36	27	28	24	24	18
1912	54	54	71	60	56	16	b	b	b	b	b
1914	54	67	77	58	61	50	12	34	36	44	24
1921	56	52	68	55	60	41	b	b	b	b	Ь
1924	51	56	65	67	55	52	25	40	36	23	25
1934	53	60	64	57	58	48	b	b	b	b	b
1936	53	56	63	52	55	43	22	38	32	22	23
1941	54	57	66	62	43	41	b	b	b	b	b
1942	72	68	72	68	52	38	36	38	33	32	26
1952	51	60	61	60	57	41	Ь	b	b	b	b
1956	56	65	60	61	47	36	27	31	26	21	19

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).

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INDIVIDUAL WEIGHT GAIN (Grams) ^a (Postweaning Perio STUDY: 200L GROUP: 4-M ; SEX: MALE DOSE: 18 (mg base/kg/day)	
STUDY: 200L GROUP: 4-M : SEX: MALE	105
DODD: 10 (mg 2000) (3/00)	105
ANIMAL # PNO 35 C PND 42 PND 49 PNO 56 PND 63 PNO 70 PND 77 D PNO 84 PND 91 PNO 98 PNO 1	
1962 55 55 54 49 35 31 b b b	b
1965 56 60 58 55 52 29 24 26 19 18 1	b 13
1972 53 63 60 60 47 34 b b b	Ь
1974 48 59 50 52 50 43 21 30 36 24	18
1982 56 58 62 57 45 40 o b b	18 b
1982 56 58 62 57 45 40 5 b b b 1988 58 64 64 55 47 34 28 22 27 23 1991 49 60 68 62 65 52 b b b b	9
1991 49 60 68 62 65 52 b b b b	b
1993 50 61 64 60 58 41 25 40 26 26 2	21
2005 58 61 55 60 42 35 b b b b	b
2008 60 60 61 53 45 37 15 23 26 19	18
	19
	.8
N 50 50 50 50 50 50 25 25 25 25 25	5
: Data Unavailable b: Scheduled Sacrifice	

^aWeight gains compared to the previous period.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



INDIVIDUAL WEIGHT GAIN (Grams)³ (Postweaning Period)

STUDY: 200L GROUP: 4-M - SEX: MALE

DOSE: 18(mg base/kg/day)

ANIMAL # PND 112 PND 119

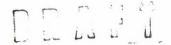
1762 1763 21 15 1773 b Ь 1774 17 15 1782 b 1783 14 1792 b b 1795 20 1801 b 1806 27 12 1813 b 1814 18 10 1823 b b 1824 21 17 1831 b 1835 25 8 1845 b b 1846 19 24 1852 b Ь 1853 30 1861 b b 1865 24 1873 b b 1875 19 17 1882 b b 1883 - -1894 b b 1897 1901 b b 1904 • • 1912 b b 1914 1921 Ь b 1924 --1934 Ь Ь 1936 1941 b b 1942 --1952 b b 1956

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^{-:} Data Unavailable.

ORAL PRENATAL AND POSTNATAL DEVELOPMENT STUDY OF WR238605 SUCCINATE IN RATS INDIVIDUAL WEIGHT GAIN (Grams) (Postweening Period) GROUP: 4-M : SEX: MALE DOSE: 18 (mg base/kg/day) STUDY: 200L ANIMAL # PND 112 PND 119 1962 1965 1972 b 1974 1982 b 1988 1991 b 1993 Ь 2005 b 2008 MEAN 21 11 S.D. 4.5 13.8 N 12 12 --: Data Unavailable b: Scheduled Sacrifice



101- 101- 102- 103- 103- 103- 104- 105- 106- 106- 107- 108- 108- 109- 110- 111- 111- 112- 112- 113- 113- 114- 114- 114- 114-	MAL # 112 113 114 117 315 318 412 413 511 513 511 513 511 513 513 313	25 29 44 42 39 41 37 38 34 45 39 40 39 43 41	45 50 43 42 23 29 37 28 28 28 38 28 34 37 25	PND 49 28 33 17 25 28 12 32 14 19 22 20 20 29 26 23	GROUP DOSE: PND 56 24 28 20 31 24 37 -17 36 24 23 18 17 25 22	(mg	Dase/kg/c PND 70 18 16 7 30 15 19 21 18 10 13 15 18 15 33	PND 77 ^d b 41 b 17 b 26 b 38 b 39 b 26 b		PND 91 b 60 b 73 b 59 b 76 b -20 b 76 b 6		PND 105 b 38 b -10 b 12 b -10 b 17
101- 101- 102- 103- 103- 104- 105- 105- 106- 107- 107- 108- 109- 110- 110- 111- 111- 112- 113- 114- 114- 114- 114- 114- 114- 114	112 113 214 217 315 318 412 413 511 513 514 6516 712 713	25 29 44 42 39 41 37 38 34 45 39 35 40 39 43	45 50 43 42 23 29 37 28 28 28 38 28 34 37 25	28 33 17 25 28 12 32 14 19 22 20 20 29 26	24 28 20 31 24 37 -17 36 24 23 18 17 25 22	11 23 29 12 14 29 39 14 29 16 20 14	18 16 7 30 15 19 21 18 10 13 15 18	b 41 b 17 b 26 b 38 b 39 b	b 45 b 46 b 39 b 41 b 34 b	b 60 b 73 b 59 b 76 b -20 b	b -833 b -633 b -68 b -102 b b -87	b 38 b -10 b -12 b -10 b b
101 102 102 103 103 104 104 105 106 106 107 107 108 108 110 111 111 112 112 113 114 114	113 214 217 217 315 318 412 413 5511 5514 6516 712 713	29 44 42 39 41 37 38 34 45 39 35 40 39 43	50 43 42 23 29 37 28 28 28 38 28 34 37 25	33 17 25 28 12 32 14 19 22 20 20 29 26	28 20 31 24 37 -17 36 24 23 18 17 25 22	23 29 12 14 29 39 14 9 16 20 14	16 7 30 15 19 21 18 10 13 15 18	41 b 17 b 26 b 38 b 39 b 26 b	45 b 46 b 39 b 41 b 34 b	60 b 73 b 59 b 76 b -20 b	-83 b -63 b -68 b -102 b b	38 b -10 b 12 b -10 b b
101 102 102 103 103 104 104 105 106 106 107 107 108 108 110 111 111 112 112 113 114 114	113 214 217 217 315 318 412 413 5511 5514 6516 712 713	29 44 42 39 41 37 38 34 45 39 35 40 39 43	50 43 42 23 29 37 28 28 28 38 28 34 37 25	33 17 25 28 12 32 14 19 22 20 20 29 26	28 20 31 24 37 -17 36 24 23 18 17 25 22	23 29 12 14 29 39 14 9 16 20 14	16 7 30 15 19 21 18 10 13 15 18	41 b 17 b 26 b 38 b 39 b 26 b	45 b 46 b 39 b 41 b 34 b	60 b 73 b 59 b 76 b -20 b	-83 b -63 b -68 b -102 b b	38 b -10 b 12 b -10 b b
102 102 103 103 104 104 105 105 106 107 107 108 108 109 110 111 111 112 112 113 113 114 114	214 ° 217 315 318 412 413 511 513 514 516 712 713	44 42 39 41 37 38 34 45 39 35 40 39 43	43 42 23 29 37 28 28 28 38 28 34 37 25	17 25 28 12 32 14 19 22 20 20 29 26	20 31 24 37 -17 36 24 23 18 17 25 22	29 12 14 29 39 14 9 16 20 14	7 30 15 19 21 18 10 13 15 18	b 17 b 26 b 38 b 39 b 26 b	b 46 b 39 b 41 b 34 b	b 73 b 59 b 76 b -20 b	b -63 b -68 b -102 b b b -87	-10 b 12 b -10 b b
102 103 103 104 104 105 105 106 107 107 108 108 109 110 111 111 112 112 113 113 114 114	217 315 318 412 413 511 513 514 516 712 713	42 39 41 37 38 34 45 39 35 40 39 43	42 23 29 37 28 28 28 38 28 34 37 25	25 28 12 32 14 19 22 20 20 29 26	31 24 37 -17 36 24 23 18 17 25 22	12 14 29 39 14 9 16 20 14	30 15 19 21 18 10 13 15 18	17 b 26 b 38 b 39 b 26 b	46 b 39 b 41 b 34 b	73 b 59 b 76 b -20 b	-63 b -68 b -102 b b	-10 b 12 b -10 b b
103 103 104 104 105 105 106 107 107 108 108 109 110 111 111 112 112 113 113 114 114	315 318 412 413 511 513 514 516 712 713	39 41 37 38 34 45 39 35 40 39 43	23 29 37 28 28 28 38 28 34 37	28 12 32 14 19 22 20 20 29 26	24 37 -17 36 24 23 18 17 25 22	14 29 39 14 9 16 20 14	15 19 21 18 10 13 15 18	b 26 b 38 b 39 b 26 b	b 39 b 41 b 34 b	59 b 76 b -20 b	-68 b -102 b b -87	b 12 b -10 b b
103 104 104 105 105 106 106 107 108 108 109 110 111 111 112 113 113 114 114	318 412 413 511 513 514 516 712 713	41 37 38 34 45 39 35 40 39 43	29 37 28 28 28 38 28 34 37 25	12 32 14 19 22 20 20 29 26	37 -17 36 24 23 18 17 25	29 39 14 9 16 20 14	19 21 18 10 13 15 18	26 b 38 b 39 b 26 b	39 b 41 b 34 b	59 b 76 b -20 b 76	-68 b -102 b b	12 b -10 b b
104 104 105 105 106 106 107 108 109 110 111 111 112 112 113 114 114	412 413 511 513 514 516 712 713	37 38 34 45 39 35 40 39 43	37 28 28 28 38 28 34 37 25	32 14 19 22 20 20 29 26	-17 36 24 23 18 17 25	39 14 9 16 20 14	21 18 10 13 15 18	38 b 39 b 26 b	b 41 b 34 b 40	76 b -20 b	-102 b b b	-10 b b 17
104 105 105 106 106 107 107 108 109 110 111 111 112 113 113 114 114	413 511 513 514 516 712 713 813	38 34 45 39 35 40 39 43	28 28 28 38 28 34 37 25	14 19 22 20 20 29 26	36 24 23 18 17 25	14 9 16 20 14 15	18 10 13 15 18 15	38 b 39 b 26 b	41 b 34 b	76 b -20 b 76	-102 b b -87	-10 b b 17
105 105 106 106 107 107 108 108 109 110 111 111 112 113 113 114 114	511 513 514 516 712 713 513	34 45 39 35 40 39 43	28 28 38 28 34 37 25	19 22 20 20 29 26	24 23 18 17 25 22	9 16 20 14 15	10 13 15 18 15	5 39 5 26 5	b 34 b 40	-20 b 76	b b -87	b b 17
105 106 106 107 107 108 108 109 110 111 111 112 112 113 114 114	513 514 516 712 713 513	45 39 35 40 39 43	28 38 28 34 37 25	22 20 20 29 26	23 18 17 25 22	16 20 14 15	13 15 18 15	39 b 26 b	34 b 40	-20 b 76	b b -87	b b 17
106 106 107 107 108 108 109 110 111 111 112 113 114 114	514 516 712 713 313	39 35 40 39 43	38 28 34 37 25	20 20 29 26	18 17 25 22	20 14 15	15 18 15	26 b	ь 40	76	-87	ь 17
106 107 107 108 108 109 110 111 111 112 113 113 114	516 712 713 313	35 40 39 43	28 34 37 25	20 29 26	17 25 22	14 15	18 15	26 b	40	76	-87	17
107 107 108 108 109 110 111 111 112 113 113 114	712 713 813	40 39 43	34 37 25	29 26	25 22	15	15	ь				
107 108 108 109 110 111 111 112 113 113 114	713 313	39 43	37 25	26	22				D	D	D	D
108 108 109 110 110 111 111 112 113 113 114	313	43	25			54	5.5		13		11	74
108 109 110 110 111 111 112 113 113 114				25				39	42	68	-64	31
109 110 110 111 111 112 113 113 114 114	315	41			22	16	11	Ь	b	b	Ь	ь
110 110 111 111 112 113 113 114			26	16	28	19	10	32	32	67	-73	0
110 111 111 112 112 113 113 114		42	38	23	19	9	26	30	38	76	-84	11
111 111 112 112 113 113 114 114		43	44	21	34	23	27	Ь	Ь	p.	Ь	Ь
111 112 112 113 113 114 114		44	43	30	31	23	28	41	49	91	-105	-8
112 112 113 113 114 114		39	41	27	17	11	21	Ь	Ь	Ь	Ь	Ь
112 113 113 114 114		42	31	27	19	22	14	31	35	80	- 92	10
113 113 114 114		43	27	22	14	14	19	Ь	Ь	Ь	Ь	Ь
113 114 114		42	35	27	21	22	19	28	37	95	-104	3
114 114		33	43	_1	43	- 31	11	Ь	Ь	Ь	Ь	Ь
114		49	37	37	23	18	17	31	37	84	-88	25
		43	33	31	14	26	17	Ь	Ь	b	Ь	ь
		47	27	37	25	28	22	35	43	69	-85	33
	511	39	33	26	17	12	2	Ь	Ь	Ь	Ь	Ь
115		46	32	22	19	22	18	35	34	84	-94	12
116		46	29	31	10	19	15	Ь	Ь	ь	Ь	ь
116		43	30	29	24	32	13	38	32	75	-91	-3
117		34	35	13	22	10	21	Ь	Ь	Ь	b	ь
117		36	30	19	15	15	11	40	35	70	-113	18
118		48	36	23	8	7	34	Ь	b	Ь	Ь	ь
118		40	26	18	21	16	11	32	40	72	-67	-3
119	911	51	45	32	21	20	18	Ь	Ь	Ь	Ь	ь
119		49	38	23	29	14	17	26	11	15	Ь	Ь
	915		29 41	23	26	20	14	ь	Ь	Ь	Ь	Ь
120 121	915 012	47 42		29	6	35	21 28	29 b	34 b	48 b	-50 b	40 b

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70. There was only one female in litter No. 109.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



					INDI	VIDUAI	WEIG	HT GA	[N (Gran	ns) ^a (Po	stweaning	Period)	
}	STUDY	: 200L			GROUP DOSE:	: 1-F 0(mg	base/kg/c	lay)	SEX:	FEMAL	E		
	ANIMAL #	PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77 ^d	PND 84	PND 91	PNI) 98	PND 105	
1	12114	46	38	33	20	19	18	48	30	69	-71	-6	
	12211	33	29	22	16	19	16	ь	Ь	b	b	ь	
	12213	41	33	29	19	17	19	27	32	93	-115	-6	
	12312	40	24	31	18	12	18	ь	ь	Ь	Ь	ь	
	12313	38	30	22	16	17	14	33	37	83	- 103	4	
	12411	42	34	34	7	8	24	Ь	Ь	Ь	Ь	Ь	
	12413	40	38	31	26	22	22	32	23	-4	Ь	Ь	
	12511	49	22	37	23	19	24	Ь	b	Ь	Ь	Ь	
	12519	50	36	22	30	23	13	39	32	47	-39	-12	
	MEAN	41	34	25	21	19	18	33	36	64	-84	9	
	S.D.	5.3	6.6	7.1	9.3	7.4	6.4	6.7	7.7	28.4	20.0	16.4	
	N	49	49	49	49	49	49	25	25	25	2:2	22	
				:	Data Unav	ailable	b: Sch	eduled Sad	crifice				

^aWeight gains compared to the previous period.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



•	INDIV	DUAL W	VEIGHT	GAIN (Grams) ^a	(Postweaning Peri	od)
STUDY: 200L	GROUP: DOSE:	1-F 0 (mg base	e/kg/day)	SEX: FE	MALE	
	ANIMAL #	PND 112	PND 119			
	10112	Ь	Ь			
	10113	6	-6			
	10214	р	Ь			
	10217	5	- 12			
	10315	b	Ь			
	10318	16	26			
	10412	Ь	Ь			
	10413	12	5			
	10511	Ь	b			
	10513	b	b			
	10614	Ь	Ь			
	10616	10	-7			
	10712	Ь	Ь			
	10713	0	-1			
	10813	Ь	Ь			
	10815	-1	15			
	10911	7	-4			
	11012	Ь	Ь			
	11015	16	7			
	11111	Ь	Ь			
	11117	11	-1			
	11212	Ь	Ь			
	11213 11 3 15	4 b	5 b			
	11316	-1	14			
	11412	- I	b			
	11414					
	11511	b	b			
•	11519					
	11611	Ь	Ь			
	11612					
~	11711	Ь	Ь			
	11712					
	11812	ь	ь			
	11814					
	11911	ь	ь			
·	11915	ь	b			
	12012	b	b			
	12013					
	12113	ь	Ь			
			_			

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^{--:} Data Unavailable.

						نا لاما ما ا	u,
.	INDIVID	UAL W	EIGHT	GAIN (Grams	s) (Postwear	ning Period)	
STUDY: 200L	GROUP: 1 DOSE: 0	-F (mg base	e/kg/day)	SEX:	FEMALE		
1	ANIMAL #	PND 112	PND 119				
	4244/						
_	12114						
	12211	ь	b				
· ·	12213						
	12312	Ь	ь				
	12313						
	12411	b	b				
]	12413	b	b				
	12511	b	b				
-	12519						
	MEAN	7	3				
	S.D.	6.1	10.9				
	N	12	12				
	: Data Unavailab	le b	: Schedule	d Sacrifice			

1				1.3
-			3	
i	 	Li	L	u,

										_		
		*******		INDI	VIDUAL	WEIG	HT GAI	N (Gram	s) ^a (Pos	tweaning	Period)	
STUDY	200L			GROUP	2-F	· · · · · · · · · · · · · · · · · · ·		SEX:	FEMAL:	E		
01001				DOSE:	2 (mg	base/kg/c	iay)					
ANIMAL #	PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77 d	PND 84	PND 91	PND 98	PND 105	
ANTINE II	1 110 35	1.10	1.10	30	05	1.10 10						
12611	44	28	34	27	21	11	Ь	Ь	b	Ь	b	
12612	47	38	26	38	18	21	36	36	88	-123	19	
12715	42	33	23	22	26	10	Ь	ь	Ь	Ь	b	
12716	42	33	29	28	26	12	43	43	94	-124	14	
12813	42	43	25	33	20	25	Ь	Ь	Ь	Ь	b	
12815	41	37	30	44	18	26	26	35	49	-53	36	
12911	40	33	31	25	24	19	Ь	b	b	b	b	
12912	38	29	34	26	16	22	24	21	-8	4	Ь	
13011	44	34	25	24	12	18	ь	Ь	Ь	Ь	Ь	
13013	55	44	33	37	30	-92	106	58	66	-66	11	
13113	44	37	22	19	23	18	Ь	Ь	Ь	Ь	Ь	
13114	48	38	23	27	15	19	35	36	78	-104	28	
13212	49	28	40	23	16	25	Ь	Ь	Ь	Ь	Ь	
13213	46	28	3D	25	14	14	41	45	51	-60	3	
13315	43	33	24	23	26	15	Ь	Ь	Ь	Ь	Ь	
13317	40	35	27	32	23	22	38	39	83	-116	21	
13412	39	29	30	20	22	19	Ь	Ь	Ь	Ь	Ь	
13414	46	34	27	30	25	20	32	26	77	-82	7	
13512	37	26	22	30	18	20	b	Ь	Ь	Ь	Ь	
13515	4D	31	26	27	7	18	26	29	110	-126	18	
13612	45	37	20	34	21	22	Ь	Ь	Ь	Ь	Ь	
13614	45	41	34	25	16	15	42	37	88	-103	10	
13711	32	32	19	28	22	11	Ь	Ь	Ь	Ь	Ь	
13713	44	30	34	26	16	15	39	30	49	-42	2	
13811	42	42	20	35	22	33	Ь	Ь	Ь	Ь	ь	
13815	50	33	20	33	23	19	38	44	79	-94	7	
13912	47	33	4	48	16	16	Ь	Ь	Ь	Ь	Ь	
13913	36	40	23	20	12	24	48	32	88	- 105	-6	
14D11	42	28	31	17	22	11	Ь	Ь	Ь	Ь	ь	
14014	41	30	35	12	24	14	30	38	93	-97	3	
14111	42	42	26	23	32	25	Ь	Ь	Ь	Ь	Ь	
14112	41	35	39	23	23	11	28	37	45	-43	-3	
14212	42	29	36	12	16	15	Ь	Ь	Ь	Ь	Ь	
14213	48	32	28	28	21	21	27	29	48	-42	10	
14314	49	37	34	21	28	25	Ь	b	Ь	Ь	Ь	
14315	40	33	30	22	14	25	39	41	55	-67	46	
14412	39	36	28	17	21	14	31	28	70	-89	6	
14416	44	32	24	28	22	-54	Ь	Ь	Ь	Ь	Ь	
14511	46	39	30	20	24	14	Ь	Ь	Ь	Ь	ь	
14514	51	40	20	30	23	25	28	32	61	-64	4	

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).

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				INDIV	IDUAL	WEIG	HT GAI	N (Gram	s) ^a (Pos	tweaning	Period)	
STUDY:	200L			GROUP: DOSE:	2-F 2 (mg	base/kg/d	ay)	SEX:	FEMAL	Ε		
ANIMAL #	PND 35 ^C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77 d	PND 84	PNO 91	PND 98	PND 105	
 14613		74	76	27	10	4	L	L.	L	L	L	• • • • • • • • • • • • • • • • • • • •
	46	36	35	23	19	4.4	Ь	b	Ь	Ь	b 2	
14615	44	25	36	37	15	11	38	45	64	80	2	
14712	47	29	27	24	18	14	b	b	b	Ь	Ь	
14714	48	40	. 58	32	26	27	24	43	61	68	3	
14811	47	37	13	30	14	12	Ь	b	b	b	b	
14812	43	45	25	18	28	23	32	43	63	61	8	
14913	49	33	26	18 27	19	12 23 24	32 b	b	Ь	b	b	
14916	48	27	13 25 26 32	31	21	29	52	54	96	-129	33	
15011	40	35	31	17	18	13	b	b	b	ь	b	
15013	42	29	26	17	9	26	26	30	65	71	8	
									-		-	
MEAN	44	34	28	26	20	15	37	37	69	80	12	
S.D.	4.2	5.0	6.6	7.4	5.3	19.5	16.2	8.6	23.8	32.6	12.8	
N	50	50	50	50	50	50	25	25	25	25	24	
			:	Data Unava	ilable	b: Sche	duted Sac	rifice				

^aWeight gains compared to the previous period.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).

		00005 5	OCCLINAL	E IN RAIS	L	u' 1
	TNDTV	IDITAT. W	RICHT C	AIN (Grams) ^a (Pos		
			EIGHI G	EFFTA (GIIGID) (FO2	caccining relifed)	
STUDY: 200L	GROUP: DOSE:	2-F 2 (mg base	e/kg/day)	SEX: FEMAL	Ξ	
	ANIMAL #	PND 112	PND 119			
	12611	b	ь			
•	12612	13	17			
	12715	b	b			
	12716	22	9			
	12813	b	b			
	12815	1	13			
	12911	b	Ь			
	12912	b	b			
	13011	Ь	Ь			
	13013	17	-6			
	13113	b	b			
	13114	2	1			
	13212	b	b			
	13213	7	14			
1	13315	Ь	b			
	13317	20	10			
	13412	b	b			
	13414	20	13			
	13512	b	Ь			
	13515	4	-2			
	13612	Ь	Ь			
	13614	3	14			
	13711	ь	ь			
ı	13713	7	10			
	13811	Ь	Ь			
	13815	8	15			
	13912	b	Ь			
	13913		· •			
	14011	b 	Ь			
	14014					
	14111	b	b			
	14112					
	14212	b 	b 			
	14213 14314					
		b 	ь 			
	14315 14412					
	14416	ь	b			
	14511	b	b			
	1/51/	Б	U			

b

14514

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^{--:} Data Unavailable.



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	INDIVI	DUAL W	EIGHT	GAIN (Gram	s) (Postwean	ing Period)	• • • • • •
STUDY: 200L	GROUP: DOSE:	2-F 2 (mg base	/kg/day)	SEX:	FEMALE		
	ANIMAL #	PND 112	PND 119				
•	14613	b	ь				
	14615						
	14712	b	Ь				
	14714						
	14811	b	b				
	14812						
	14913	b	ь				
	14916						
	15011	b	Ь				
	15013						
1	,5015						
	MEAN	10	9				
	S.D.	7.7	7.3				
	N.	12	12				
	: Data Unavaila			d Sacrifice			



STUDY	: 200L			GROUP DOSE:	: 3-F 6 (mg	base/kg/c	iay)	SEX:	FEMAL	E	
ANIMAL #	PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77 d	PND 84	PND 91	PND 98	PND 105
15112	34	35	25	21	28	18	b	b	b	b	b
15115	46	37	28	34	22	20	33	38	61	- 65	-4
15211	37	36	17	25							
	46	32	28	23	12	12	b	ь	Ь	-48	ь 20
15213					16	19	29	29	62		
15313	42	35	17	27	9	29	ь	Ь	ь	Ь	ь
15314	39	36	23	29	19	14	35	33	57	-53	21
15412	40	38	30	22	23	25	Ь	ь	ь	ь	ь
15416	42	31	27	25	25	19	20	35	83	-72	19
15513	43	41	31	34	25	25	ь	ь	ь	ь	ь
15518	49	37	23	-56	81	17	27	40	59	-51	28
15611	48	41	38	31	21	29	ь	ь	ь	ь	ь
15617	47	36	27	43	19	32	30	35	82	-85	36
15712	38	29	34	20	18	9	b	ь	b	ь	ь
15714	46	32	28	15	27	19	46	43	91	-102	2
15814	39	38	29	29	21	33	Ь	ь	ь	ь	ь
15816	47	37	21	36	24	25	6	33	51	103	-128
16011	39	34	24	22	19	21	ь	ь	Ь	Ь	ь
16015	37	33	22	21	14	15	34	26	64	-61	4
16113	38	33	23	16	27	19	ь	ь	ь	ь	ь
16114	43	37	20	14	22	13	39	32	75	-84	-1
16211	23	48	22	16	17	22	ь	Ь	Ь	Ь	ь
16216	25	40	15	19	17	19	31	38	67	-80	26
16311	42	33	26	16	21	15	ь	ь	ь	ь	ь
16313	36	39	17	23	16	12	34	52	68	-94	15
16412	39	31	24	19	15	17	Ь	Ь	ь	Ь	Ь
16413	48	33	34	20	21	24	32	35	45	-47	11
16513	44	36	41	26	25	15	b	ь	ь	Ь	ь
16514	47	47	37	26	23	21	29	40	95	-106	21
16613	44	27	25	14	11	7	ь	ь	ь	ь	ь
16614	44	33	31	17	20	13	32	30	67	-90	7
16711	46	31	20	24	24	13	Ь	Ь	ь	b	Ь
16714	44	34	19	19	18	9	44	31	40	54	-51
16813	42	46	26	31	25	21	b	Ь	ь	b	b
16814	43	38	22	-43	81	12	46	39	60	-65	5
16911	42	25	28	10	17	10	ь	ь	b	b	b
16913	42	34	31	23	1	20	27	35	99	-122	16
17016	45	28	29	17	22	19	ь	ь	ь	ь	ь
17018	44	32	24	26	18	18	25	27	85	-100	18
17111	44	32	26	18	20	15	ь	b	ь	b	ь
17115	42	31	20	31	19	17	29	32	68	- 59	1

Note: There was no litter F1 litter No. 159 since F0 dam No. 159 was not pregnant.

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



				INDIV	IDUAI	WEIG	HT GA	IN (Gram	s) ^a (Pos	tweaning	Period)	
STUDY:	200L			GROUP: DOSE:				SEX:	FEMAL	E		
ANIMAL #	PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77	PND 84	PND 91	PND 98	PND 105	
											•	
17212	46	37	21	23	25	16	Ь	b	b	Ь	ь	
17215	41	33	29		16	14		22	50	-56	5	
17311	54	54	31	26	26	22	b	b	b			
17312	43	26	20	21	3	15	37	39	89	-98	8	
17411	48	44	35	32	28	20	b	b	b	b	b	
17413	46	39	28	-24	80	21		34	47	-62	23	
17513	43		31	20	22		b	b	b	b	b	
17516	40	31	27	20	24	17	35	31	93	-120	24	
MEAN	42	36	26	19	23	19	32	35	69	-65	5	
S.D.	5.4	5.7	5.8	17.3	16.0	6.1	9.6	6.2	17.1	50.1	32.9	
N	48	48	48	48	48	48	24	24	24	24	24	
			:	Data Unava	ilable	b: Sche	eduled Sa	crifice				
	17212 17215 17311 17312 17411 17413 17513 17516 MEAN S.D.	17212 46 17215 41 17311 54 17312 43 17411 48 17413 46 17513 43 17516 40 MEAN 42 S.D. 5.4	ANIMAL # PND 35 C PND 42 17212	ANIMAL # PND 35 C PND 42 PND 49 17212	STUDY: 200L GROUP: DOSE: ANIMAL # PND 35 C PND 42 PND 49 PND 56 17212 46 37 21 23 17215 41 33 29 27 17311 54 54 31 26 17312 43 26 20 21 17411 48 44 35 32 17413 46 39 28 -24 17513 43 37 31 20 17516 40 31 27 20 MEAN 42 36 26 19 S.D. 5.4 5.7 5.8 17.3 N 48 48 48 48	STUDY: 200L GROUP: 3-F DOSE: 6 (mg ANIMAL # PND 35 C PND 42 PND 49 PND 56 PND 63 17212 46 37 21 23 25 17215 41 33 29 27 16 17311 54 54 31 26 26 17312 43 26 20 21 3 17411 48 44 35 32 28 17413 46 39 28 -24 80 17513 43 37 31 20 22 17516 40 31 27 20 24 MEAN 42 36 26 19 23 S.D. 5.4 5.7 5.8 17.3 16.0	STUDY: 200L GROUP: 3-F DOSE: 6 (mg base/kg/d ANIMAL # PND 35 C PND 42 PND 49 PND 56 PND 63 PND 70 17212 46 37 21 23 25 16 17215 41 33 29 27 16 14 17311 54 54 31 26 26 22 17312 43 26 20 21 3 15 17411 48 44 35 32 28 20 17413 46 39 28 -24 80 21 17513 43 37 31 20 22 32 17516 40 31 27 20 24 17 MEAN 42 36 26 19 23 19 S.D. 5.4 5.7 5.8 17.3 16.0 6.1 N 48 48 48 48 48 48	STUDY: 200L GROUP: 3-F DOSE: 6 (mg base/kg/day) ANIMAL # PND 35 C PND 42 PND 49 PND 56 PND 63 PND 70 PND 77 C 17212 46 37 21 23 25 16 b 17215 41 33 29 27 16 14 21 17311 54 54 31 26 26 22 b 17312 43 26 20 21 3 15 37 17411 48 44 35 32 28 20 b 17413 46 39 28 -24 80 21 52 17513 43 37 31 20 22 32 b 17513 43 37 31 20 22 32 b 17516 40 31 27 20 24 17 35 MEAN 42 36 26 19 23 19 32 S.D. 5.4 5.7 5.8 17.3 16.0 6.1 9.6 N 48 48 48 48 48 48 48 24	STUDY: 200L GROUP: 3-F	STUDY: 200L GROUP: 3-F	STUDY: 200L GROUP: 3-F SEX: FEMALE DOSE: 6 (mg base/kg/day) ANIMAL # PND 35 C PND 42 PND 49 PND 56 PND 63 PND 70 PND 77 PND 84 PND 91 PND 98 17212 46 37 21 23 25 16 b b b b b 17215 41 33 29 27 16 14 21 22 50 -56 17311 54 54 31 26 26 22 b b b b b b 17312 43 26 20 21 3 15 37 39 89 -98 17411 48 44 35 32 28 20 b b b b b 17413 46 39 28 -24 80 21 52 34 47 -62 17513 43 37 31 20 22 32 b b b b b 17513 43 37 31 20 22 32 b b b b b 17513 43 37 31 20 22 32 b b b b b 17513 43 37 31 20 22 32 b b b b b 5 17516 40 31 27 20 24 17 35 31 93 -120 MEAN 42 36 26 19 23 19 32 35 69 -65 S.D. 5.4 5.7 5.8 17.3 16.0 6.1 9.6 6.2 17.1 50.1 N 48 48 48 48 48 48 48 48 24 24 24 24	DOSE: 6 (mg base/kg/day) ANIMAL # PND 35 C PND 42 PND 49 PND 56 PND 63 PND 70 PND 77 PND 84 PND 91 PND 98 PND 105 17212 46 37 21 23 25 16 b b b b b b b b 1 b 1 b 1 b 1 b 1 b

^aWeight gains compared to the previous period.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).





				ATE IN RATS		
	INDIVI	DUAL W	EIGHT	GAIN (Grams) a	(Postweaning Period	>
	GROUP: DOSE:	3-F 6 (mg bas	e/kg/day)	SEX: FE	MALE	
	ANIMAL #	PND 112	PND 119			
	15112 15115	b	b 12			
	15211	b	b			
		-5				
	15313		b			
	15314	0	-6			
	15412	b	Ь			
	15416	-9	-6			
	15513	b	b			
	15518	10	8			
ĺ	15611	b	b			
	15617	0	11			
	15712	Ь	Ь			
	15714	12	0			
1	15814	b	Ь			
	15816	-8	25			
	16011	Ь	Ь			
	16015	1	10			
	16113	Ь	Ь			
	16114	3	-6			
	16211	Ь	b			
1	16216	-8 b	-7			
	16311 16313		b			
	16412	b	b			
	16413					
	16513	b	b			
	16514					
	16613	ь	Ь			
	16614					
	16711	b	b			
	16714					
	16813	ь	b			
	16814		••			
	16911	Ь	b			
	16913					
	17016	b	Ь			
	17019					

b

17018 17111

17115

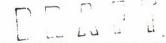
Note: There was no litter F1 litter No. 159 since F0 dam No. 159 was not pregnant.

b

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^{-:} Data Unavailable.



					L. L. LU	13 61
I	INDIVI	DUAL W	EIGHT	GAIN (Grams)	(Postweaning Period)	
STUDY: 200L	GROUP: DOSE:	3-F 6 (mg base	·/kg/day)	SEX: F	'EMALE	
	ANIMAL #	PND 112	PND 119			
	17212	b	b			
	17215					
	17311	b	b			
	17312					
	17411	ь	b			
•	17413					
	17513	b	ь			
	17516					
_	MEAN	-1	3			
	S.D.	7.3	10.5			
	N	11	11			

--: Data Unavailable b: Scheduled Sacrifice

				INDI	/IDUAL	WEIG	HT GAI	[N (Gram	s) ^a (Pos	tweaning	Period)	
STUDY:	200L			GROUP:	4-F 18(mg	base/kg	/day)	SEX:	FEMAL	E		
ANIMAL #	PND 35 ^C	PND 42	PND 49	PND 56			PND 77 d				PND 105	
										• • • • • • • • • • • • • • • • • • • •		
17614	39	30	29	27	19	7	b	ь	b	Ь	Ь	
17616	36	35	22	24	21	12	35	14	-10	Ь	Ь	
17712	46	30	26	22	21	17	Ь	b	ь	Ь	Ь	
17713	41	34	23	22	22	15	35	39	62	-89	21	
17815	42	25	18	29	11	10	Ь	ь	Ь	Ь	b	
17816	42	30	25	25	19	16	39	44	33	-34	-4	
17911	36	30	18	40	21	8	Ь	Ь	Ь	Ь	Ь	
17912	41	34	21	28	19	19	37	41	67	-75	-3	
18013	37	40	22	24	24	23	Ь	Ь	Ь	Ь	Ь	
18014	37	30	27	25	20	20	53	34	85	-100	7	
18112	30	23	23	18	12	9	Ь	ь	Ь	Ь	Ь	
18116	27	32	16	15	5	12	39	49	83	-119	-2	
18213	33	24	25	20	18	17	ь	ь	b	ь	Ь	
18214	37	28	28	18	27	19	42	41	82	-78	9	
18315	41	44	29	32	32	23	ь	b	ь	Ь	Ь	
18317	34	37	26	32	19	16	37	38	99	-92	19	
18411	37	26	24	20	14	15	Ь	Ь	Ь	Ь	b	
18416	42	34	29	21	19	23	42	52	90	-121	19	
18511	43	30	28	33	22	20	Ь	Ь	Ь	Ь	b	
18515	40	32	15	39	26	21	25	50	71	-66	. 14	
18611	42	27	19	21	15	8	Ь	Ь	Ь	Ь	Ь	
18613	31	27	22	16	15	16	5	49	81	-79	7	
18712	41	27	22	23	22	11	Ь	Ь	ь	Ь	b	
18714	40	26	29	17	27	18	32	41	75	-95	6	
18812	48	38	24	25	27	14	Ь	Ь	Ь	Ь	Ь	
18815	51	37	31	46	30	24	27	13	21	Ь	Ь	
18911	43	44	38	33	30	11	ь	Ь	b	b	Ь	
18912	42	39	38	30	31	19	20	30	31	9	7	
19012	44	40	20	23	19	19	Ь	Ь	Ь	Ь	Ь	
19019	45	37	22	25	20	12	41	25	74	-91	15	
19112	52	33	33	23	26	16	ь	Ь	Ь	Ь	Ь	
19114	47	33	33	18	30	22	36	36	82	-87	21	
19214	38	32	33	22	20	8	Ь	Ь	Ь	Ь	Ь	
19215	39	32	28	22	26	13	31	33	57	-40	0	
19315	48	42	32	28	24	31	ь	Ь	Ь	Ь	Ь	
19317	42	34	32	13	34	23	35	47	85	-106	16	
19415	43	29	26	23	16	21	Ь	Ь	Ь	Ь	Ь	
19416	51	23	30	20	20	16	31	39	68	-72	5	
19512	37	40	34	23	18	28	Ь	Ь	Ь	Ь	Ь	
19514	39	36	24	25	21	13	28	46	75	-73	5	

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



											-		
					INDI	VIDUAL	WEIG	HT GAI	N (Gran	ns) ^a (Pos	tweaning	Period)	
	STUDY:	200L			GROUP DOSE:		g base/kg		SEX:	FEMAL	E		
	ANIMAL #	PND 35 C	PND 42	PND 49	PND 56	PND 63	PND 70	PND 77 ^d	PND 84	PND 91	PND 98	PND 105	
	40/17	, F	2/	24	•••••		25			L			
	19613	45	24	24	12	22	25 20	ь 30	Ь	Ь	Ь	ь 13	
	19617	40	32	27	29	23	20		48	60	-68		
	19715	40	31	23	16	14	7	Ь	Ь	Ь	Ь	Ь	
	19716	43	40	19	25	19	14	35	41	72	-90	7	
	19812	42	35	31	29	26	27	Ċ.	28	17	Ь	Ь	
	19814	47	41	30	22	12	-43	Ь	Ь	ь	b	Ь	
	19912	37	37	25	30	18	24	b	Ь	ь	b	b	
	19915	36	35	18	25	19	16	31	35	82	-105	20	
	20011	41	39	31	31	13	-12			Ь	Ь	b	
	20012	48	39 51	19	30	11	26	ь 29	ь 33	85	-88	b 4	
	MEAN	41	33	26	25	21	15	32	38	65	-80	9	
	S.D.	5.3	6.1	5.5	6.7	6.1	11.0	10.1	10.2	26.6	29.1	8.0	
	N	50	50	50	50	50	50	25	25	25	22	22	
:					Data Unava	ilable	b: Sch	b: Scheduled Sacrifice					

^aWeight gains compared to the previous period.

^cBaseline is PND28. Two animals/sex/litter were evaluated from PND28 - 70.

^dOne animal/sex/litter was evaluated from PND70 - scheduled sacrifice (i.e., during the fertility phase).



INDIVIDUAL WEIGHT GAIN (Grams) (Postweaning Period)

STUDY: 200L

SEX: FEMALE

GROUP: 4-F
DOSE: 18 (mg base/kg/day)

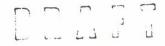
ANIMAL # PND 112 PND 119

17614	Ь	Ь
17616	b	b
17712	b	b
17713	12	-2
17815	Ь	ь
17816	1	7
17911	b	Ь
17912	8	9
18013	ь	Ь
18014	-3	14
18112	b	b
18116	3	-6
18213	Ь	Ь
18214	13	0
18315	Ь	Ь
18317	-9	-2
18411	ь	Ь
18416	-1	6
18511	b	Ь
18515	9	15
18611	ь	Ь
18613	-1	-5
18712	Ь	Ь
18714	12	4
18812	Ь	Ь
18815	Ь	b
18911	ь	Ь
18912	Ь	Ь
19012	b	Ь
19019	• •	
19112	ь	Ь
19114	• •	••
19214	Ь	Ь
19215	• •	
19315	ь	Ь
19317	• •	
19415	Ь	Ь
19416		
19512	Ь	Ь
19514		

^aWeight gains compared to the previous period.

^bScheduled Sacrifice.

^{-:} Data Unavailable.



	INDIV	DUAL V	VEIGHT	GAIN (Gram	s) (Postweaning	Period)
STUDY: 200L	GROUP: DOSE:	4-F 18(mg ba	ise/kg/day)	SEX:	FEMALE	
.	ANIMAL #	PND 112	PND 119			
	19613	b	ь			
1	19617					
	19715	b	b			
	19716					
	19812	b	Ь			
	19814	b	b			
	19912	b	b			
	19915					
	20011	b	Ь			
	20012					
	MEAN	,	,			
	MEAN	- 4	4			
	S.D.	7.3	7.3			
	N	11	11	1.0		
•	Data Unavai	lable t	o: Schedule	d Sacrifice		